



Southwest Connecticut Reliability Study

Comparison of Middletown to Norwalk Project vs. East Shore Alternative

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Presented by the

ISO-NE Southwest Connecticut Working Group

Executive Summary

This study documents the results of testing performed by the ISO-NE SWCT Working Group to compare the proposed Middletown to Norwalk Project with an alternative referred to as the East Shore Alternative.

The East Shore Alternative as studied was found to be an unacceptable substitute to the Middletown to Norwalk Project because it does not meet NERC, NPCC, or NEPOOL criteria. The East Shore Alternative does not strengthen the power supply into SWCT by introducing a new source; it simply connects the load in SWCT to an already heavily loaded 387 line. The most notable overload in this report is the one on the 387 line. Even with the assumed reconductoring of the limiting portion of the 387 line, the line continues to overload. In addition, an outage of this line yields substantial overloads on the remaining corridors serving SWCT and the 345-kV across the state.

Since the East Shore Alternative is not considered acceptable, continued comparative testing was not performed. In order to completely evaluate the East Shore Alternative, further analysis would have to include thermal and voltage testing at a 30,000 MW New England load level, a transfer limit comparison, and possibly 2nd contingency (N-2) testing.

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1.0 Introduction

In December 2002, the Southwest Connecticut Working Group published the “Southwestern Connecticut Electric Reliability Study”. The report identified the need to construct a 345-kV “loop” to address the reliability problems in Southwest Connecticut (SWCT). Northeast Utilities (NU) and the United Illuminating Company (UI) have filed an application with the Connecticut Siting Council to construct the Middletown to Norwalk portion of that project.

This study documents the results of testing performed by the ISO-NE SWCT Working Group to compare the proposed Middletown to Norwalk Project with an alternative referred to as the East Shore Alternative.

2.0 Description of Alternatives

2.1 Middletown to Norwalk Project

The Middletown to Norwalk Project begins by constructing a new switching station at Beseck Junction. This new switching station is connected to the existing 345-kV transmission at Southington via Meriden, Haddam Neck, and Millstone. From Beseck, a new 345-kV line is connected to Norwalk, after interconnecting to the proposed East Devon and Singer substations.

2.2 East Shore Alternative

Similar to the Middletown to Norwalk Project, the East Shore Alternative terminates at Norwalk substation with intermediate stops at Singer and East Devon substations. All system changes at these substations are identical to that of the Middletown to Norwalk Project. However, from East Devon, a new circuit is constructed to the existing East Shore Substation in New Haven. There are no further 345-kV transmission changes associated with this alternative.

3.0 Study Methodology

3.1 System Modeling

All evaluations of the Middletown to Norwalk Project were performed on behalf of the ISO-NE SWCT Working Group by EPRO using PTI’s PSS/E Program. All study work performed by PowerGEM to evaluate the East Shore Alternative used PTI’s MUST program. Both programs provide similar results, yet use different solution methods to arrive at their results. While this is acceptable to perform a comparison between two alternatives, caution must be used when evaluating the results. One solution method may determine a solution for a given set of system conditions while the other may not. In such a case, the results should be noted, but not used to discount the validity of a given project.

For a valid comparison, the same generator dispatches, system loads, and NE-NY interface flows were used in this analysis as in the studies published previously.

3.2 Power-Flow

Both studies used the same criteria for evaluating system performance. Table 1 contains the thermal loading performance criteria applied to both studies. The use of long-time emergency (LTE) thermal ratings in planning studies recognizes the limited line switching, re-dispatch and system re-configuration options available to operators. These ratings provide adequate flexibility to system operations to address unique circumstances encountered on a day-to-day basis.

Table 1
Thermal Loading Performance Criteria

System Condition	Maximum Allowable Facility Loading
Pre-Contingency (all-lines-in)	Normal Rating
Post-Contingency	LTE Rating

3.3 Voltage

Table 2 contains the voltage performance criteria used in both sets of analyses.

Table 2
Voltage Performance Criteria

Voltage Level	Bus Voltage Limits	
	Normal Conditions	Emergency Conditions
> 115 kV	95 to 105% of nominal	95 to 105% of nominal
≤ 115 kV	95 to 105% of nominal	90 to 105% of nominal
Millstone 345 kV	100 to 105% of nominal	100 to 105% of nominal

3.4 Contingency List

Both studies tested all single transmission line outages, stuck breaker events, double circuit tower events, and generator outages in Connecticut, including new scenarios due to the addition of the project under evaluation.

4.0 Study Results

Results of testing the Middletown to Norwalk Project versus the East Shore Alternative are contained in Appendices A through F. Although testing was performed for many sets of

conditions and is documented in the Appendices, the discussion below only evaluates those cases which are necessary to provide a valid comparison of the two proposals.

4.1 New Haven Harbor generation on line, existing 387 line (East Shore to Scovill Rock)

Results of testing at New England load of 27,700 MW with New Haven Harbor in service and NY-NE=0 MW are contained in [Appendices A1](#) and [A2](#). Table 3 shows the worst case overloads for both alternatives.

Table 3
Worst Case Overloads
New Haven Harbor In Service - NY to NE Flow = 0 MW

Dispatch	Contingency	Overloaded Element			Middletown-Norwalk Project (E/PRO)	East Shore Alternative (PowerGEM)
		From Bus	To Bus	Voltage (kV)	% of Rating ¹	% of Rating
BASE CASE OVERLOADS						
2	NONE	FLAX HILL	RYTN J B	115	100.5	
2	NONE	NORWALK	FLAX HILL	115	121.0	120.5
2	NONE	RYTN J A	NORWALK	115	112.7	112.2
CONTINGENCY OVERLOADS						
2	SGTN4TSTK	SCOVLRK	E.SHORE	345		106.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	Auto	102.0	121.1
5	1272-1721DCT	BCNFL PF	DRBY J B	115	131.0	132.1
2	1620SLINE	HADDAM	BOKUM	115		109.3
5	FROSTBR27T	SHAWSHIL	BUNKER H	115		104.3
4	DEVON2TSTK	TRMB J A	PEQUONIC	115		101.7
3	NORSING1	SINGNOR2	NORSING2	345	109.5	
5	GRNDAV2TSTK	GRAND AV	WEST RIV	115	106.8	101.7
5	GRNDAV2TSTK	GRAND AV	WEST RIV - 2	115	106.8	101.7
2	GRNDAV2TSTK	WATER ST	WEST RIV	115	100.6	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	115	NC ²	223.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	115	NC	284.3
2	TRIANGLE3T	PLUMTREE	TRIANGLE	115	NC	177.4
2	1060-1270DCT	PLUMTREE	TRIANGLE - 2	115	135.1	135.2
2	1440-1450DCT	SO.END	GLNBRK J	115	123.2	123.2
2	SOUTHEND6T	WATERSDE	COS COB	115	124.8	124.8
2	SOUTHEND6T	WATERSDE	GLNBROOK	115	102.5	102.5
3	1389-1880DCT	CRRRA JCT	ASHCREEK	115	100.2	100.3
2	1416-1880DCT	FLAX HIL	RYTN J B	115	178.3	177.9
5	1867-1880DCT	GLNBROOK	ELYAVE	115	153.8	153.9
5	1867-1890DCT	GLNBROOK	RYTN J A	115	101.3	101.8
5	1880-1890DCT	GLNBROOK	RYTN J B	115	146.4	146.5
2	1416-1880DCT	NORWALK	FLAX HIL	115	195.6	195.3
5	1867-1880DCT	NWLK HAR	ELYAVE	115	158.1	158.4
4	1880-1890DCT	NWLK HAR	RYTN J B	115	104.4	104.3
2	1416-1867DCT	RYTN J A	NORWALK	115	181.2	180.8
4	1867-1890DCT	RYTN J A	NWLK HAR	115	144.0	144.4

¹ For base case overloads, the “% of Rating” refers to the Normal rating, and for contingency overloads the “% of Rating” refers to the Long-Time Emergency (LTE) rating. This applies to Tables 3 through 7.

² Not converged in the analysis.

The results above show that the two projects have very similar performance characteristics. However, there are a few items which should be noted. The first and most significant issue is that the 345-kV East Shore to Scovill Rock 387 line is overloaded in the East Shore Alternative. This line is providing the majority of the power toward SWCT. In contrast to this, the Middletown to Norwalk Project provides an additional path for power to flow into SWCT.

The flow on the 387 line, which in the East Shore Alternative becomes a cornerstone of the solution, is very dependent on the status of the New Haven Harbor generator. This generator, which is defined as being outside of the SWCT electrical interface, is interconnected to the East Shore end of the 387 line; therefore, the 387 line flow increases dramatically when this 447 MW generator is out of service. Testing as described below documents the impact on both projects of having this generator out of service.

Another item of significance is the magnitude of the overload on the Southington autotransformer in the East Shore Alternative. If this contingency were to occur, automatic switching actions would mitigate small overloads. However, the severity of the overload in the East Shore Alternative may prove these actions to be inadequate.

The results of the East Shore Alternative analysis also indicate that the underlying 115-kV transmission system is forced to carry more power as compared to the Middletown to Norwalk Project. This is reflected in the fact that for various contingencies Haddam to Bokum, Shaws Hill to Bunker Hill, and Trumbull Junction to Pequonnock 115-kV lines are all overloaded in the East Shore Alternative only.

In the case of the Middletown to Norwalk Project, loss of one of the 345-kV cables between Singer and Norwalk substations causes the remaining cable to overload. The Middletown to Norwalk Project also includes series reactors that will be utilized to mitigate the overload. In the case of the East Shore Alternative, this overload does not occur.

The results of the Middletown to Norwalk Project also show minor overloads around Grand Ave. An existing Special Protection System (SPS) which reduces the output of generation at New Haven Harbor eliminates these overloads.

A few other items which need to be discussed are the Middle River – Triangle area, the area west of Glenbrook, and the lines between Norwalk, Glenbrook and Norwalk Harbor. The Middle River –Triangle area is a radial load pocket which is served from the Plumtree Substation. While the results indicate that there may be performance differences between the two alternatives, this is due to the different solution methods used. The results in this area should not be used as a means of comparison between these projects and will not be discussed further in this report.

The area west of Glenbrook is virtually a radial load pocket and there is no reason to compare the results of these two alternatives as neither project serves to address these issues. Therefore, this area will not be discussed any further.

The lines between Norwalk, Glenbrook, and Norwalk Harbor substations are over their normal rating pre-contingency and heavily overloaded following many contingencies. These lines provide the transmission path between the sources at Norwalk Harbor and Norwalk to the load being served via the Glenbrook Substation. These overloads can be remedied through the installation of cables between Norwalk and Glenbrook and between Norwalk Harbor and Glenbrook. Since neither the Middletown to Norwalk Project nor the East Shore Alternative includes these cables, further comparison of the overloads in this area is not warranted.

4.2 New Haven Harbor generation out of service, existing 387 line (East Shore to Scovill Rock)

As stated above, the results indicate that acceptability of the East Shore Alternative was highly dependent upon the availability of generation at New Haven Harbor. The Middletown to Norwalk Project had not been previously tested with this generator out of service as the status of this generation was expected to have little impact on the Project. To ensure that both projects were being evaluated against the same criteria, both projects were tested with the New Haven Harbor generator out of service in this comparison.

Table 4 below shows a comparison of the worst case overloads as a result of this testing. [Appendices B1](#) and [B2](#) document the results of testing with a New England load of 27,700 MW, New Haven Harbor out of service, and NE-NY=0 MW.

Table 4
Worst Case Overloads
New Haven Harbor Out of Service - NY to NE Flow = 0 MW

Dispatch	Contingency	Overloaded Element			Middletown-Norwalk (E/PRO)	East Shore Alternative (PowerGEM)
		From Bus	To Bus	Voltage (kV)	% of Rating	% of Rating
BASE CASE OVERLOADS						
2	NONE	SCOVL RK	E. SHORE	345		117.3
2	NONE	FLAX HILL	RYTN J B	115	103.9	102.8
2	NONE	NORWALK	FLAX HILL	115	124.4	123.2
2	NONE	RYTN J A	NORWALK	115	116.1	114.9
CONTINGENCY OVERLOADS						
2	SGTN4TSTK	SCOVL RK	E. SHORE	345		124.5
5	1460-387DCT	FRSTBDGE	SOUTHGTN	345		106.0
5	1460-387DCT	SOUTHGTN	MERID362	345		105.5
5	SGTN5TSTK	SOUTHGTN	SGTN B	Auto	104.3	126.8
2	1618-321DCT	BALDWNJA	FROST BR	115		107.1
5	1272-1721DCT	BCNFL PF	DRBY J B	115	131.9	133.5
2	1460-387DCT	GLEN JCT	SOUTHGTN	115		120.1
5	1620SLINE	HADDAM	BOKUM	115	109.8	123.4
2	1261LINE	HADDAM	BOKUM -2	115		107.3
5	FROSTBR27T	SHAWSHIL	BUNKER H	115		111.9
2	SCOVVK8TSTK	SOUTHGTN	WLNGF PF	115		102.1
3	387+AUTOS	WLNGF PF	WALLFRDJ	115	119.6	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	115	108.0	
3	NORSING1	SINGNOR2	NORSING2	345	108.6	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	115	NC	226.4
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	115	NC	287.9
2	TRIANGLE3T	PLUMTREE	TRIANGLE	115	NC	188.7
2	1060-1270DCT	PLUMTREE	TRIANGLE -2	115	135.2	135.3
2	1440-1450DCT	SO.END	GLNBRK J	115	123.2	123.2
2	SOUTHEND6T	WATERSDE	COS COB	115	124.8	124.8
2	SOUTHEND6T	WATERSDE	GLNBROOK	115	102.5	102.5
3	1389-1880DCT	CRRA JCT	ASHCREEK	115		100.3
2	1416-1880DCT	FLAX HIL	RYTN J B	115	181.9	180.9
5	1867-1880DCT	GLNBROOK	ELYAVE	115	154.5	154.3
5	1867-1890DCT	GLNBROOK	RYTN J A	115	102.9	102.9
5	1880-1890DCT	GLNBROOK	RYTN J B	115	148.8	148.2
2	1416-1880DCT	NORWALK	FLAX HIL	115	199.3	198.2
5	1867-1880DCT	NWLK HAR	ELYAVE	115	160.3	159.7
4	1880-1890DCT	NWLK HAR	RYTN J B	115	104.4	104.3
2	1416-1867DCT	RYTN J A	NORWALK	115	184.8	183.8
4	1867-1890DCT	RYTN J A	NWLK HAR	115	143.5	144.2

Results with New Haven Harbor generation out of service show the inherent weakness of the East Shore Alternative. First and foremost, the 387 line between Scovill Rock and East Shore is 17% over its normal rating prior to a contingency and up to 24.5% over its emergency rating following system contingencies. To resolve these overloads, either a second 345-kV line into SWCT would have to be built or the 387 line must be upgraded.

Even if the 387 line were to be upgraded, the loss of this line causes the 345-kV Southington to Frost Bridge 329 line and the 345-kV Meriden to Southington 362 line to become overloaded. This is because these lines provide the only remaining 345-kV path from the generation in eastern Connecticut to supply the load in SWCT. In the case of the Middletown to Norwalk Project, following the loss of the 387 line, the proposed 345-kV Beseck to East Devon line remains in service in addition to the path through Southington. The Middletown to Norwalk Project creates an additional line into SWCT and therefore does not have similar overloads.

In addition, the 115-kV transmission overloads associated with East Shore Alternative are significant. The 115-kV corridors containing multiple circuits from Frost Bridge and Southington toward the Devon Substation have overloads.

In the Middletown to Norwalk Project, there are only two 115-kV circuits overloaded which are not overloaded in the East Shore Alternative. These are the circuits between Wallingford and Wallingford Jct. and between East Meriden and North Wallingford.

4.3 New Haven Harbor generation out of service, 387 line (East Shore to Scovill Rock) reconducted

The results in Table 4 show that the 387 line is overloaded. As part of the evaluation of the East Shore Alternative, it was noted that approximately 10 miles of this circuit consists of 2156 ACSR conductor. This segment has significantly less capability than the remainder of the circuit which was constructed using bundled 2-954 ACSR. Therefore, the East Shore analysis was performed again for the same set of conditions used in Section 4.2, assuming the limiting 10 miles of conductor was replaced with bundled 2-954 ACSR. The results are listed in [Appendices B1](#) and [B2](#). Table 5 shows the worst case overloads with a New England load of 27,700 MW, New Haven Harbor out of service, and NE-NY=0 MW, and the limiting portion of the 387 line reconducted.

Table 5
Worst Case Overloads
New Haven Harbor Out of Service - NY to NE Flow = 0 MW - 387 Line Reconductored

Dispatch	Contingency	Overloaded Element			Middletown-Norwalk (E/PRO)	East Shore Alternative w/Recond. 387 Line (PowerGEM)
		From Bus	To Bus	Voltage (kV)	% of Rating	% of Rating
BASE CASE OVERLOADS						
2	NONE	SCOVLRK	E.SHORE	345		101.1
2	NONE	FLAX HILL	RYTN J B	115	103.9	103.5
2	NONE	NORWALK	FLAX HILL	115	124.4	123.9
2	NONE	RYTN J A	NORWALK	115	116.1	115.7
CONTINGENCY OVERLOADS						
2	SGTN4TSTK	SCOVLRK	E.SHORE	345		106.9
5	1460-387DCT	FRSTBDGE	SOUTHGTN	345		106.1
5	1460-387DCT	SOUTHGTN	MERID362	345		105.5
5	SGTN5TSTK	SOUTHGTN	SGTN B	Auto	104.3	124.8
2	1618-321DCT	BALDWNJA	FROST BR	115		103.8
2	SCOVKR8TSTK	BALDWNJB	BUNKER H	115		101.4
5	1272-1721DCT	BCNFL PF	DRBY J B	115	131.9	133.4
2	1460-387DCT	GLEN JCT	SOUTHGTN	115		120.1
5	1620SLINE	HADDAM	BOKUM	115	109.8	121.4
2	1261LINE	HADDAM	BOKUM -2	115		105.6
5	FROSTBR27T	SHAWSHIL	BUNKER H	115		110.3
2	SCOVKR8TSTK	SOUTHGTN	WLNGF PF	115		104.5
3	387+AUTOS	WLNGF PF	WALLFRDJ	115	119.6	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	115	108.0	
3	NORSING1	SINGNOR2	NORSING2	345	108.6	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	115	NC	226.3
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	115	NC	287.7
2	TRIANGLE3T	PLUMTREE	TRIANGLE	115	NC	188.4
2	1060-1270DCT	PLUMTREE	TRIANGLE -2	115	135.2	135.2
2	1440-1450DCT	SO.END	GLNBRK J	115	123.2	123.2
2	SOUTHEND6T	WATERSDE	COS COB	115	124.8	124.8
2	SOUTHEND6T	WATERSDE	GLNBROOK	115	102.5	102.5
3	1389-1880DCT	CRRA JCT	ASHCREEK	115		100.6
2	1416-1880DCT	FLAX HIL	RYTN J B	115	181.9	182.1
5	1867-1880DCT	GLNBROOK	ELYAVE	115	154.5	154.3
5	1867-1890DCT	GLNBROOK	RYTN J A	115	102.9	102.8
5	1880-1890DCT	GLNBROOK	RYTN J B	115	148.8	148.2
2	1416-1880DCT	NORWALK	FLAX HIL	115	199.3	199.4
5	1867-1880DCT	NWLK HAR	ELYAVE	115	160.3	159.6
4	1880-1890DCT	NWLK HAR	RYTN J B	115	104.4	104.3
2	1416-1867DCT	RYTN J A	NORWALK	115	184.8	185.0
4	1867-1890DCT	RYTN J A	NWLK HAR	115	143.5	143.4

Even with reconductoring the limiting portion of the 387 line, the resulting line rating is below that which is necessary to serve the load under these conditions. The line is over its normal rating with all transmission facilities in service and over its LTE rating following system contingencies.

In addition, there was little or no beneficial impact on the other overloads in the system, most of which occur when the 387 line is removed from service. Therefore, reconductoring the 387 line will not eliminate these remaining overloads, which are simply due to the fact that this alternative does not build a new source into SWCT.

4.4 New Haven Harbor generation out of service, 387 line (East Shore to Scovill Rock) reconductored, 700 MW Flow from New England to New York

Although the limitations of the East Shore Alternative have already been discussed, further analysis was performed varying flows between New England (NE) and New York (NY). Table 6 shows a comparison of the worst case overloads with a New England load of 27,700 MW, New Haven Harbor generation out of service, and NE-NY=700 MW. The full results of this testing are located in [Appendices D1](#) and [D2](#). [Appendices C1](#) and [C2](#) document similar conditions with generation at New Haven Harbor in service. These conditions were not discussed as they were not found to be the most limiting.

Table 6
Worst Case Overloads
New Haven Harbor Out of Service - NE to NY Flow = 700 MW - 387 Line Reconductored

Dispatch	Contingency	Overloaded Element			Middletown-Norwalk (E/PRO)	East Shore Alternative w/Recond. 387 Line (PowerGEM)
		From Bus	To Bus	Voltage (kV)	% of Rating	% of Rating
BASE CASE OVERLOADS						
2	NONE	SCOVL RK	E.SHORE	345		107.3
2	NONE	FLAX HILL	RYTN J B	115	102.7	101.9
2	NONE	NORWALK	FLAX HILL	115	123.1	122.3
2	NONE	RYTN J A	NORWALK	115	114.9	114.0
CONTINGENCY OVERLOADS						
5	SGTN4TSTK	SCOVL RK	E.SHORE	345		115.0
5	1460-387DCT	FRSTBDGE	SOUTHGTN	345		120.4
5	318LINE	HADAUTO	MILLSTNE	345		103.4
2	MONTVSTBKR	SCOVL RK	KLEEN	345		100.3
2	1460-387DCT	SOUTHGTN	MERID362	345		114.5
5	SGTN5TSTK	SOUTHGTN	SGTN B	Auto	111.3	133.5
2	1460-387DCT	BALDWNJA	FROST BR	115		114.3
2	1460-387DCT	BALDWNJA	STEVENS N	115		104.3
2	1460-387DCT	BALDWNJB	BUNKER H	115		105.5
5	1272-1721DCT	BCNFL PF	DRBY J B	115	131.9	133.2
2	1460-387DCT	GLEN JCT	MIX AVE	115		102.1
2	1460-387DCT	GLEN JCT	SOUTHGTN	115		131.1
5	SCOVK8TSTK	BOKUM	GREEN HL	115		102.3
5	1620SLINE	HADDAM	BOKUM	115	111.6	125.2
5	1261LINE	HADDAM	BOKUM -2	115		108.8
5	FROSTBR27T	SHAWSHIL	BUNKER H	115		111.5
2	387LINE	SOUTHGTN	WLNGF PF	115		110.4
3	387+AUTOS	WLNGF PF	WALLFRDJ	115	120.8	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	115	108.2	
2	DEVSING1	DEVSING2	SINGDEV2	345	110.9	
3	NORSING1	SINGNOR2	NORSING2	345	119.8	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	115	NC	226.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	115	NC	287.6
2	TRIANGLE3T	PLUMTREE	TRIANGLE	115	NC	188.0
2	1060-1270DCT	PLUMTREE	TRIANGLE -2	115	135.1	135.2
2	1440-1450DCT	SO.END	GLNBRK J	115	123.2	123.2
2	SOUTHEND6T	WATERSDE	COS COB	115	124.8	124.8
2	SOUTHEND6T	WATERSDE	GLNBROOK	115	102.5	102.5
3	1389-1880DCT	CRRA JCT	ASHCREEK	115		100.3
2	1416-1880DCT	FLAX HIL	RYTN J B	115	180.5	179.9
5	1867-1880DCT	GLNBROOK	ELYAVE	115	153.8	154.0
5	1867-1890DCT	GLNBROOK	RYTN J A	115	102.1	102.4
5	1880-1890DCT	GLNBROOK	RYTN J B	115	147.8	147.5
2	1416-1880DCT	NORWALK	FLAX HIL	115	197.9	197.2
5	1867-1880DCT	NWLK HAR	ELYAVE	115	158.3	158.8
5	1880-1890DCT	NWLK HAR	RYTN J B	115	104.3	104.4
2	1416-1867DCT	RYTN J A	NORWALK	115	183.4	182.8
5	1867-1890DCT	RYTN J A	NWLK HAR	115	141.9	143.8

With a 700 MW flow from NE to NY, the East Shore Alternative yields numerous 115-kV and 345-kV overloads. The most significant changes in overloads occur on the 345-kV system. The following 345-kV lines are overloaded in the East Shore Alternative which are not overloaded with the Middletown to Norwalk Project:

- 329 line between Frost Bridge and Southington
- 348 line between the Haddam autotransformer and Millstone
- 353 line between Scovill Rock and Kleen Energy
- 387 line between East Shore and Scovill Rock (over its normal and emergency rating)
- 362 line between Meriden and Southington

While some minor upgrades may eliminate a few of the overloads associated with the East Shore Alternative, these results demonstrate that this alternative does not provide acceptable system performance without significant system upgrades to serve as part of a long range plan for Connecticut.

4.5 New Haven Harbor generation out of service, 387 line (East Shore to Scovill Rock) reconducted, 700 MW Flow from New York to New England

Continuing with varying NE to NY flows, flows were changed to NY-NE=700. All other conditions are as listed in Section 4.4. Worst case overloads are compared in Table 7. Again, results with New Haven Harbor in service are not discussed for these conditions as they were not the most limiting; although they are documented in [Appendices E1](#) and [E2](#).

**Table 7
Worst Case Overloads**

New Haven Harbor Out of Service - NY to NE Flow = 700 MW - 387 Line Reconductored

Dispatch	Contingency	Overloaded Element			Middletown-Norwalk (E/PRO)	East Shore Alternative w/Recond. 387 Line (PowerGEM)
		From Bus	To Bus	Voltage (kV)	% of Rating	% of Rating
BASE CASE OVERLOADS						
2	NONE	FLAX HILL	RYTN J B	115	105.6	104.8
2	NONE	NORWALK	FLAX HILL	115	126.0	125.2
2	NONE	RYTN J A	NORWALK	115	117.7	116.9
CONTINGENCY OVERLOADS						
5	SGTN5TSTK	SOUTHGTN	SGTN B	Auto		114.6
2	1618-321DCT	BALDWNJA	FROST BR	115	110.9	107.6
2	1618-321DCT	BALDWNJA	STEVENS	115	102.2	
5	1272-1721DCT	BCNFL PF	DRBY J B	115	131.9	133.4
2	1460-387DCT	GLEN JCT	SOUTHGTN	115		111.0
5	1620SLINE	HADDAM	BOKUM	115	107.5	117.2
2	1261LINE	HADDAM	BOKUM -2	115		101.8
5	FROSTBR27T	SHAWSHIL	BUNKER H	115		108.8
5	LONGMT5TSTK	NORHR138	NWLK HAR	Auto	109.3	122.5
5	LONGMT5TSTK	NRTHPT P	NRTHPRT1	138		111.4
3	387+AUTOS	WLNGF PF	WALLFRDJ	115	118.0	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	115	108.2	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	115	NC	226.4
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	115	NC	287.8
2	TRIANGLE3T	PLUMTREE	TRIANGLE	115	NC	188.7
2	1060-1270DCT	PLUMTREE	TRIANGLE -2	115	135.4	135.3
2	1440-1450DCT	SO.END	GLNBRK J	115	123.2	123.2
2	SOUTHEND6T	WATERSDE	COS COB	115	124.8	124.8
2	SOUTHEND6T	WATERSDE	GLNBROOK	115	102.5	102.5
3	1389-1880DCT	CRRA JCT	ASHCREEK	115		100.5
2	1416-1880DCT	FLAX HIL	RYTN J B	115	183.8	183.7
5	1867-1880DCT	GLNBROOK	ELYAVE	115	155.1	154.7
5	1867-1890DCT	GLNBROOK	RYTN J A	115	103.8	103.4
5	1880-1890DCT	GLNBROOK	RYTN J B	115	150.0	149.0
2	1416-1880DCT	NORWALK	FLAX HIL	115	201.1	201.0
5	1867-1880DCT	NWLK HAR	ELYAVE	115	161.9	160.7
5	1880-1890DCT	NWLK HAR	RYTN J B	115	104.3	104.4
2	1416-1867DCT	RYTN J A	NORWALK	115	186.7	186.5
5	1867-1890DCT	RYTN J A	NWLK HAR	115	143.4	143.9

These conditions show that the East Shore Alternative results in more 115-kV overloads than the Middletown to Norwalk Project.

In both system alternatives, overloads are shown on equipment associated with the 138-kV Norwalk Harbor to Northport 1385 underwater cable to Long Island. However, these overloads appear following a failure of the 5T circuit breaker at Long Mountain to operate. One of the projects associated with implementation of the Bethel to Norwalk 345-kV Project is the

reconfiguration of the Long Mountain Substation to prevent this contingency from occurring. Therefore this contingency and the associated overloads can be disregarded.

4.6 Voltage Analysis

Voltage comparisons were performed between each of the options studied. These are documented in [Appendices A2, B2, C2, D2, E2, and F2](#). In most cases, performance was similar between the two alternatives. In many cases with the East Shore Alternative a stuck 8T circuit breaker at Scovill Rock resulted in system-wide low voltages. The results of this contingency should be ignored as relatively minor configuration changes at Scovill Rock substation could eliminate this contingency.

5.0 Conclusion

This study documents the results of testing performed by the ISO-NE SWCT Working Group to compare the proposed Middletown to Norwalk Project with an alternative referred to as the East Shore Alternative. The East Shore Alternative as studied was found to be an unacceptable substitute to the Middletown to Norwalk Project because it does not meet NERC, NPCC, or NEPOOL criteria. The East Shore Alternative does not strengthen the power supply into SWCT by introducing a new source; it simply connects the load in SWCT to an already heavily loaded 387 line. The most notable overload in this report is the one on the 387 line. Even with the assumed reconductoring of the limiting portion of the 387 line, the line continues to overload. In addition, an outage of this line yields substantial overloads on the remaining corridors serving SWCT and the 345-kV across the state.

Since the East Shore Alternative is not considered acceptable, continued comparative testing was not performed. In order to completely evaluate the East Shore Alternative, further analysis would have to include thermal and voltage testing at a 30,000 MW New England load level, a transfer limit comparison, and possibly 2nd contingency (N-2) testing.

Appendix A1
Thermal Results
New Haven Harbor On, NE-NY=0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Worst Case Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	9.6	132.6	131.0	15.7	148.0	132.1	-1.1
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	287.7	448.3	100.2	281.2	440.3	100.3	-0.1
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	221.1	466.4	178.3	213.9	455.4	177.9	0.4
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.7	443.1	153.8	171.9	429.3	153.9	-0.1
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	181.9	460.3	101.3	176.1	446.7	101.8	-0.5
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	167.1	437.0	146.4	162.0	423.5	146.5	-0.1
5	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	117.2	283.6	106.8	113.8	262.4	101.7	5.1
5	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	117.2	283.6	106.8	113.8	262.4	101.7	5.1
2	1620SLINE	HADDAM	BOKUM	1	165				101.8	180.3	109.3	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1			NC		22.5	299.1	223.2	
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	266.2	512.4	195.6	258.0	499.9	195.3	0.3
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	181.3	430.2	158.1	174.3	416.7	158.4	-0.3
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	195.3	328.5	104.4	189.4	317.0	104.3	0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.2	284.3	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1			NC		79.7	244.8	177.4	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.1	84.2	224.3	135.2	-0.1
2	1416-1867DCT	RYTN J A	NORWALK	1	256	247.9	474.2	181.2	240.1	462.9	180.8	0.4
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	181.9	409.8	144.0	176.2	395.6	144.4	-0.4
2	SGTN4TSTK	SCOVL RK	E.SHORE	1	1604				1215.0	1700.6	106.0	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				156.0	263.9	104.3	
3	NORSING1	SINGNOR2	NORSING2	1	794	488.3	873.3	109.5				
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.4	365.6	123.2	112.7	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	260.9	596.6	102.0	279.5	708.2	121.1	-19.1
2	1060-1165DCT	TRIANGLE	MIDDLRIV	1	134	22.8	147.0	111.4	22.8	146.7	110.2	1.2
4	DEVON2TSTK	TRMB J A	PEQUONIC	1					58.9	234.8	101.7	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	49.9	282.2	100.6				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.7	102.5	0.0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	9.6	132.6	131.0	15.7	148.0	132.1	-1.1
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.0	132.0	129.4	18.0	145.4	129.9	-0.5
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	22.0	130.6	127.5	13.8	142.9	127.6	-0.1
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	37.6	129.7	126.7	31.0	141.7	126.5	0.2
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	9.6	111.1	106.8	15.7	121.6	108.5	-1.7
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	10.0	110.5	105.8	18.0	117.8	105.2	0.6
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	22.0	109.3	104.3	13.8	116.7	104.2	0.1
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	37.6	108.3	103.4	31.0	115.5	103.1	0.3
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	287.7	448.3	100.2	281.2	440.3	100.3	-0.1
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	221.1	466.4	178.3	213.9	455.4	177.9	0.4
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	209.4	452.4	171.9	203.1	440.8	172.2	-0.3
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	221.1	439.4	167.8	213.9	428.2	167.3	0.5
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	209.4	425.3	161.4	203.1	413.7	161.6	-0.2
2	113091001DCT	FLAX HIL	RYTN J B	1	256	221.1	386.0	147.6	213.9	377.0	147.3	0.3
3	113091001DCT	FLAX HIL	RYTN J B	1	256	209.4	378.6	144.0	203.1	371.3	145.0	-1.0
2	NORWALKST1	FLAX HIL	RYTN J B	1	256	220.7	375.0	142.4				
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	221.1	371.3	141.4	213.9	360.6	140.8	0.6
2	1880LINE	FLAX HIL	RYTN J B	1	256	221.1	371.1	141.4	213.9	358.7	140.1	1.3
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	221.1	371.1	141.3	213.9	358.7	140.1	1.2
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	221.1	368.7	140.3	213.9	356.6	139.3	1.0
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	221.1	354.7	135.5	213.9	345.5	135.0	0.5
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	221.1	353.8	134.9	213.9	344.3	134.5	0.4
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	209.4	355.2	134.5	203.1	343.6	134.2	0.3
3	1880LINE	FLAX HIL	RYTN J B	1	256	209.4	355.0	134.4	203.1	342.3	133.7	0.7
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	209.4	355.0	134.4	203.1	342.3	133.7	0.7
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	221.1	350.4	133.8	213.9	341.5	133.4	0.4
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	209.4	351.1	132.7	203.1	338.4	132.2	0.5
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	209.4	346.4	131.4	203.1	338.8	132.4	-1.0
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	209.4	345.0	130.9	203.1	335.7	131.1	-0.2
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	209.4	343.6	130.5	203.1	336.2	131.3	-0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	221.1	326.8	124.6	213.9	317.8	124.1	0.5
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	209.4	320.1	121.4	203.1	312.6	122.1	-0.7
2	91001LINE	FLAX HIL	RYTN J B	1	256	221.1	298.2	113.6	213.9	289.9	113.3	0.3
3	91001LINE	FLAX HIL	RYTN J B	1	256	209.4	288.7	109.4	203.1	281.4	109.9	-0.5
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	221.1	277.8	105.6	213.9	269.6	105.3	0.3
2	1130LINE	FLAX HIL	RYTN J B	1	256	221.1	277.1	105.5	213.9	269.1	105.1	0.4
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				213.9	265.4	103.7	
2	1430LINE	FLAX HIL	RYTN J B	1	256	221.1	272.4	103.6	213.9	264.5	103.3	0.3
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	221.1	272.3	103.6	213.9	264.0	103.1	0.5
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	221.1	267.7	101.9	213.9	259.8	101.5	0.4
2	SASCOCR1T	FLAX HIL	RYTN J B	1	256	221.1	267.6	101.8	213.9	259.4	101.3	0.5
2	1890LINE	FLAX HIL	RYTN J B	1	256	221.1	266.9	101.6	213.9	258.7	101.0	0.6
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	221.1	266.9	101.6	213.9	258.7	101.0	0.6
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	209.4	268.3	101.5	203.1	261.3	102.1	-0.6
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	221.1	266.8	101.5	213.9	258.9	101.1	0.4
2	1416LINE	FLAX HIL	RYTN J B	1	256	221.1	266.0	101.2	213.9	257.6	100.6	0.6
3	1130LINE	FLAX HIL	RYTN J B	1	256	209.4	266.9	101.1	203.1	260.1	101.6	-0.5
3	1430LINE	FLAX HIL	RYTN J B	1	256				203.1	256.3	100.1	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.7	443.1	153.8	171.9	429.3	153.9	-0.1
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	176.6	435.7	151.2	170.6	421.2	151.0	0.2
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	176.6	297.6	103.2	170.6	288.4	103.4	-0.2
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	177.7	292.3	101.3	171.9	283.2	101.5	-0.2
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279	176.6	290.1	100.6	170.6	281.1	100.8	-0.2
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	181.9	460.3	101.3	176.1	446.7	101.8	-0.5
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	167.1	437.0	146.4	162.0	423.5	146.5	-0.1
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	157.7	413.9	138.6	151.8	399.0	138.1	0.5
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	152.2	353.9	119.6	146.5	344.4	119.2	0.4
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	152.2	343.2	115.9	146.5	332.9	115.2	0.7
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	146.6	344.0	115.6	142.3	334.6	115.8	-0.2
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	146.6	338.4	113.8	142.3	329.8	114.1	-0.3
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	152.2	314.8	106.2	146.5	304.9	105.5	0.7
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	146.6	309.9	104.1	142.3	301.8	104.4	-0.3
5	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	117.2	283.6	106.8	113.8	262.4	101.7	5.1
5	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	117.2	283.6	106.8	113.8	262.4	101.7	5.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1620SLINE	HADDAM	BOKUM	1	165				101.8	180.3	109.3	
5	1620SLINE	HADDAM	BOKUM	1	165				101.7	180.1	109.2	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1					22.5	299.1	223.2	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1					22.4	298.4	222.7	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1					22.4	298.3	222.6	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1					22.4	297.6	222.1	
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1		22.8	147.0	111.4	22.5	149.2	111.4	0.0
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1		22.8	146.7	110.2	22.4	149.0	111.2	-1.0
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1		22.8	146.8	110.7	22.4	148.9	111.1	-0.4
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1		22.8	146.8	110.8	22.4	148.7	111.0	-0.2
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	266.2	512.4	195.6	258.0	499.9	195.3	0.3
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	256.9	501.5	189.5	247.7	485.6	189.7	-0.2
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	266.2	485.2	185.1	258.0	472.7	184.6	0.5
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	256.9	474.3	179.1	247.7	458.5	179.1	0.0
2	113091001DCT	NORWALK	FLAX HIL	1	256	266.2	430.5	164.7	258.0	421.1	164.5	0.2
3	113091001DCT	NORWALK	FLAX HIL	1	256	256.9	425.4	161.5	247.7	415.6	162.4	-0.9
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	266.2	416.8	158.7	258.0	404.9	158.2	0.5
2	1880LINE	NORWALK	FLAX HIL	1	256	266.2	416.6	158.6	258.0	402.7	157.3	1.3
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	266.2	416.6	158.6	258.0	402.7	157.3	1.3
2	NORWALKST2	NORWALK	FLAX HIL	1	256	266.2	414.8	157.7	258.0	401.3	156.8	0.9
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	266.2	401.6	153.1	258.0	390.8	152.6	0.5
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	256.9	403.8	152.2	247.7	388.3	151.7	0.5
3	1880LINE	NORWALK	FLAX HIL	1	256	256.9	403.5	152.1	247.7	387.1	151.2	0.9
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	256.9	403.5	152.1	247.7	387.1	151.2	0.9
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	266.2	398.3	152.0	258.0	388.2	151.6	0.4
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	266.2	395.2	151.0	258.0	385.5	150.6	0.4
3	NORWALKST2	NORWALK	FLAX HIL	1	256	256.9	400.5	150.6	247.7	384.2	150.1	0.5
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	256.9	393.2	148.9	247.7	383.0	149.6	-0.7
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	256.9	394.4	148.8	247.7	381.1	148.9	-0.1
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	256.9	390.5	147.9	247.7	380.5	148.6	-0.7
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	266.2	371.6	141.8	258.0	361.9	141.4	0.4
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	256.9	367.0	138.8	247.7	357.1	139.5	-0.7
2	91001LINE	NORWALK	FLAX HIL	1	256	266.2	343.1	130.8	258.0	334.0	130.5	0.3
3	91001LINE	NORWALK	FLAX HIL	1	256	256.9	335.9	127.0	247.7	325.9	127.3	-0.3
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	266.2	322.7	122.7	258.0	313.6	122.5	0.2
2	1130LINE	NORWALK	FLAX HIL	1	256	266.2	322.1	122.7	258.0	313.2	122.4	0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				258.0	309.7	121.0	
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	266.2	318.3	121.0	258.0	308.9	120.7	0.3
2	1430LINE	NORWALK	FLAX HIL	1	256	266.2	317.2	120.6	258.0	308.1	120.3	0.3
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	266.2	312.7	119.1	258.0	304.0	118.7	0.4
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	256.9	315.4	119.0	247.7	305.6	119.4	-0.4
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	266.2	312.6	119.0	258.0	303.1	118.4	0.6
3	1130LINE	NORWALK	FLAX HIL	1	256	256.9	314.3	118.7	247.7	304.6	119.0	-0.3
2	1890LINE	NORWALK	FLAX HIL	1	256	266.2	311.9	118.7	258.0	302.4	118.1	0.6
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	266.2	311.9	118.7	258.0	302.4	118.1	0.6
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	266.2	311.8	118.6	258.0	302.9	118.3	0.3
2	1416LINE	NORWALK	FLAX HIL	1	256	266.2	311.1	118.4	258.0	301.5	117.8	0.6
3	1430LINE	NORWALK	FLAX HIL	1	256	256.9	309.9	116.9	247.7	300.4	117.3	-0.4
3	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				247.7	299.9	117.2	
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	256.9	305.7	115.3	247.7	295.5	115.4	-0.1
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	256.9	304.9	115.1	247.7	295.4	115.4	-0.3
3	1890LINE	NORWALK	FLAX HIL	1	256	256.9	305.0	115.1	247.7	294.7	115.1	0.0
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	256.9	305.0	115.1	247.7	294.7	115.1	0.0
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	256.9	304.9	115.0	247.7	295.1	115.3	-0.3
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	256.9	305.3	115.0	247.7	293.0	114.5	0.5
3	1416LINE	NORWALK	FLAX HIL	1	256	256.9	303.2	114.5	247.7	293.1	114.5	0.0
2	DARIEN1T	NORWALK	FLAX HIL	1	256	266.2	300.6	114.4	258.0	292.0	114.1	0.3
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	266.2	297.5	113.2	258.0	288.8	112.8	0.4
2	1977LINENEW	NORWALK	FLAX HIL	1	256	266.2	296.8	112.9	258.0	288.1	112.6	0.3
3	DARIEN1T	NORWALK	FLAX HIL	1	256	256.9	292.8	110.5	247.7	283.6	110.8	-0.3
2	1460-387DCT	NORWALK	FLAX HIL	1	256	266.2	289.1	110.1	258.0	270.8	105.8	4.3
2	387+AUTOS	NORWALK	FLAX HIL	1	256	266.2	289.1	110.1				
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	266.2	288.4	109.7	258.0	279.3	109.1	0.6
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	256.9	289.7	109.3	247.7	280.3	109.5	-0.2
3	1977LINENEW	NORWALK	FLAX HIL	1	256	256.9	289.0	109.1	247.7	279.7	109.3	-0.2
2	SINGAUT	NORWALK	FLAX HIL	1	256	266.2	281.8	107.0	258.0	270.5	105.6	1.4
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	256.9	280.6	105.9	247.7	271.0	105.8	0.1
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	266.2	275.6	105.0	258.0	276.1	107.9	-2.9
3	387LINE	NORWALK	FLAX HIL	1	256				247.7	274.5	107.2	
3	1460-387DCT	NORWALK	FLAX HIL	1	256	256.9	277.6	104.8	247.7	274.2	107.1	-2.3
3	SCOVKR8TSTK	NORWALK	FLAX HIL	1	256				247.7	272.1	106.3	
2	387LINE	NORWALK	FLAX HIL	1	256				258.0	271.6	106.1	
2	SCOVKR8TSTK	NORWALK	FLAX HIL	1	256				258.0	267.9	104.6	
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	266.2	275.7	104.8	258.0	266.7	104.2	0.6
3	387+AUTOS	NORWALK	FLAX HIL	1	256	256.9	277.6	104.8				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	266.2	275.3	104.7	258.0	266.9	104.3	0.4
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	266.2	274.8	104.5	258.0	268.1	104.7	-0.2
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	266.2	274.8	104.5	258.0	268.1	104.7	-0.2
2	312+393LNS	NORWALK	FLAX HIL	1	256	266.2	274.6	104.4	258.0	268.0	104.7	-0.3
2	312+393REAC	NORWALK	FLAX HIL	1	256	266.2	274.6	104.4	258.0	267.9	104.7	-0.3
2	312LINE	NORWALK	FLAX HIL	1	256	266.2	274.6	104.4	258.0	268.0	104.7	-0.3
2	393LINE	NORWALK	FLAX HIL	1	256	266.2	272.8	103.7	258.0	266.1	103.9	-0.2
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	266.2	272.9	103.7	258.0	264.0	103.1	0.6
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	266.2	272.9	103.7	258.0	257.9	100.7	3.0
2	STEVENSNSTK	NORWALK	FLAX HIL	1	256	266.2	272.8	103.6	258.0	263.9	103.1	0.5
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	266.2	272.4	103.5	258.0	263.8	103.1	0.4
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	266.2	272.4	103.5	258.0	263.8	103.1	0.4
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		258.0	263.9	103.1	
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	266.2	272.4	103.5	258.0	263.7	103.0	0.5
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	266.2	272.4	103.5	258.0	263.7	103.0	0.5
2	318LINE	NORWALK	FLAX HIL	1	256	266.2	272.0	103.5	258.0	259.3	101.3	2.2
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	266.2	271.7	103.5	258.0	259.0	101.2	2.3
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	266.2	272.4	103.4	258.0	262.6	102.6	0.8
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	266.2	271.7	103.3	258.0	264.2	103.2	0.1
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	266.2	271.1	103.3	258.0	258.7	101.0	2.3
2	MIXAVE1	NORWALK	FLAX HIL	1	256	266.2	271.4	103.2	258.0	263.8	103.1	0.1
3	8100-8200DCT	NORWALK	FLAX HIL	1	256				247.7	262.6	102.6	
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	266.2	271.6	103.2	258.0	263.2	102.8	0.4
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	266.2	270.7	102.9	258.0	260.9	101.9	1.0
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	266.2	270.5	102.8	258.0	258.5	101.0	1.8
2	COLONY1T	NORWALK	FLAX HIL	1	256	266.2	270.2	102.7	258.0	262.0	102.3	0.4
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	266.2	270.3	102.7	258.0	261.8	102.2	0.5
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	266.2	270.3	102.7	258.0	261.4	102.1	0.6
2	DEVAUT	NORWALK	FLAX HIL	1	256	266.2	270.7	102.7	258.0	260.9	101.9	0.8
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	266.2	270.4	102.7	258.0	257.3	100.5	2.2
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	266.2	270.1	102.6	258.0	261.9	102.3	0.3
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC		258.0	261.9	102.3	
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	266.2	269.9	102.6	258.0	261.1	102.0	0.6
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	266.2	269.9	102.6	258.0	261.1	102.0	0.6
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	266.2	269.6	102.5	258.0	262.1	102.4	0.1
2	SCOVK5TSTK	NORWALK	FLAX HIL	1	256	266.2	269.3	102.5	258.0	256.2	100.1	2.4
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	266.2	269.5	102.4	258.0	261.3	102.1	0.3
2	88005ALINE	NORWALK	FLAX HIL	1	256	266.2	269.4	102.4	258.0	261.4	102.1	0.3
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	266.2	269.4	102.4	258.0	261.4	102.1	0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	266.2	269.3	102.4	258.0	261.0	102.0	0.4
2	1500LINE	NORWALK	FLAX HIL	1	256	266.2	269.4	102.4	258.0	261.1	102.0	0.4
2	1605LINE	NORWALK	FLAX HIL	1	256	266.2	269.4	102.4	258.0	261.1	102.0	0.4
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	266.2	269.5	102.4	258.0	260.7	101.8	0.6
2	1505LINE	NORWALK	FLAX HIL	1	256	266.2	269.2	102.3	258.0	261.0	101.9	0.4
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	266.2	269.1	102.3	258.0	260.6	101.8	0.5
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	266.2	269.4	102.3	258.0	260.5	101.8	0.5
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	266.2	269.0	102.3	258.0	260.6	101.8	0.5
2	JUNEST1	NORWALK	FLAX HIL	1	256	266.2	269.1	102.3	258.0	260.5	101.7	0.6
2	PLUMTREE25T	NORWALK	FLAX HIL	1	256	266.2	268.9	102.3	258.0	260.3	101.7	0.6
2	PLUMTREE28T	NORWALK	FLAX HIL	1	256	266.2	269.3	102.3	258.0	260.5	101.7	0.6
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	266.2	269.2	102.3	258.0	258.0	100.8	1.5
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	266.2	269.2	102.3	258.0	256.3	100.1	2.2
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	266.2	269.0	102.2	258.0	260.9	101.9	0.3
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	266.2	269.0	102.2	258.0	260.9	101.9	0.3
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	266.2	268.9	102.2	258.0	260.6	101.8	0.4
2	1690LINE	NORWALK	FLAX HIL	1	256	266.2	268.9	102.2	258.0	260.5	101.8	0.4
2	1770LINE	NORWALK	FLAX HIL	1	256	266.2	269.0	102.2	258.0	260.3	101.7	0.5
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	266.2	269.1	102.2	258.0	256.8	100.3	1.9
2	SACKETST1	NORWALK	FLAX HIL	1	256	266.2	268.6	102.1	258.0	261.6	102.2	-0.1
2	1355LINE	NORWALK	FLAX HIL	1	256	266.2	268.7	102.1	258.0	260.5	101.8	0.3
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	266.2	268.7	102.1	258.0	260.4	101.7	0.4
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	266.2	268.7	102.1	258.0	260.4	101.7	0.4
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	266.2	268.6	102.1	258.0	260.3	101.7	0.4
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	266.2	268.7	102.1	258.0	260.4	101.7	0.4
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	266.2	268.4	102.1	258.0	259.4	101.3	0.8
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	266.2	268.6	102.1	258.0	258.3	100.9	1.2
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	266.2	268.2	102.1				
2	88006ALINE	NORWALK	FLAX HIL	1	256	266.2	268.4	102.0	258.0	260.4	101.7	0.3
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	266.2	268.4	102.0	258.0	260.4	101.7	0.3
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	266.2	268.3	102.0	258.0	260.2	101.7	0.3
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	266.2	268.4	102.0	258.0	260.1	101.6	0.4
2	1820LINE	NORWALK	FLAX HIL	1	256	266.2	268.4	102.0	258.0	260.0	101.6	0.4
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	266.2	268.3	102.0	258.0	260.1	101.6	0.4
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	266.2	268.3	102.0	258.0	259.9	101.5	0.5
2	89006BLINE	NORWALK	FLAX HIL	1	256	266.2	268.2	102.0	258.0	259.9	101.5	0.5
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	266.2	268.3	102.0	258.0	259.8	101.5	0.5
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	266.2	268.3	102.0	258.0	259.9	101.5	0.5
2	362ELINE	NORWALK	FLAX HIL	1	256	266.2	268.1	102.0	258.0	259.0	101.2	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	SINGAUT	NORWALK	FLAX HIL	1	256	256.9	270.9	102.0	247.7	258.4	100.9	1.1
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	266.2	268.2	101.9	258.0	261.2	102.0	-0.1
2	BROADWYST1	NORWALK	FLAX HIL	1	256	266.2	268.2	101.9	258.0	260.4	101.7	0.2
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	266.2	268.2	101.9	258.0	259.9	101.5	0.4
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.8	101.5	0.4
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	266.2	268.8	101.9	258.0	259.8	101.5	0.4
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.9	101.5	0.4
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	266.2	268.2	101.9	258.0	259.8	101.5	0.4
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.7	101.5	0.4
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	266.2	268.8	101.9	258.0	259.8	101.5	0.4
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.9	101.5	0.4
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	266.2	268.2	101.9	258.0	259.8	101.5	0.4
2	1575LINE	NORWALK	FLAX HIL	1	256	266.2	268.0	101.9	258.0	259.7	101.4	0.5
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	266.2	268.0	101.9	258.0	259.7	101.4	0.5
2	1780LINE	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.7	101.4	0.5
2	1790LINE	NORWALK	FLAX HIL	1	256	266.2	268.1	101.9	258.0	259.7	101.4	0.5
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	266.2	268.0	101.9	258.0	259.7	101.4	0.5
2	376LINE	NORWALK	FLAX HIL	1	256	266.2	268.0	101.9	258.0	256.2	100.1	1.8
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.7	101.5	0.3
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.7	101.5	0.3
2	100+400LINES	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.6	101.4	0.4
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.5	101.4	0.4
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	266.2	267.7	101.8	258.0	259.5	101.4	0.4
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.5	101.4	0.4
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	266.2	268.0	101.8	258.0	259.5	101.4	0.4
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	266.2	267.8	101.8	258.0	259.5	101.4	0.4
2	GRNDAV5TSTK	NORWALK	FLAX HIL	1	256	266.2	267.6	101.7	258.0	261.3	102.1	-0.4
2	GRNDAV6TSTK	NORWALK	FLAX HIL	1	256	266.2	267.6	101.7	258.0	261.3	102.1	-0.4
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	260.8	101.9	-0.2
2	GRNDAV4TSTK	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	260.4	101.7	0.0
2	GRNDAV7TSTK	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	260.4	101.7	0.0
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	259.3	101.3	0.4
2	1235LINE	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	259.3	101.3	0.4
2	NWALLING1T	NORWALK	FLAX HIL	1	256	266.2	267.5	101.7	258.0	259.2	101.3	0.4
2	310-383DCT	NORWALK	FLAX HIL	1	256	266.2	267.6	101.7	258.0	258.7	101.1	0.6
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	266.2	267.2	101.6	266.8	268.8	101.8	-0.2
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	266.2	267.4	101.6	258.0	260.1	101.6	0.0
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	266.2	267.4	101.6	258.0	260.2	101.6	0.0
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	266.2	267.8	101.6	258.0	259.8	101.5	0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	266.2	267.4	101.6	258.0	259.7	101.5	0.1
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	266.2	267.2	101.6	258.0	259.7	101.5	0.1
2	352LINE	NORWALK	FLAX HIL	1	256	266.2	266.8	101.6	258.0	259.6	101.4	0.2
2	ESHORAUTO1	NORWALK	FLAX HIL	1	256				258.0	259.7	101.4	
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	266.2	267.3	101.6	258.0	259.1	101.2	0.4
2	1000LINE	NORWALK	FLAX HIL	1	256	266.2	267.2	101.6	258.0	259.0	101.2	0.4
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	266.2	267.4	101.6	258.0	259.1	101.2	0.4
2	1610LINE	NORWALK	FLAX HIL	1	256	266.2	267.3	101.6	258.0	258.6	101.0	0.6
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	256.9	269.5	101.6	247.7	258.7	101.0	0.6
2	1261-1620SDC	NORWALK	FLAX HIL	1	256	266.2	267.3	101.6	258.0	256.3	100.1	1.5
2	88003ALINE	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	259.6	101.4	0.1
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	259.5	101.4	0.1
2	89003BLINE	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	259.6	101.4	0.1
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	259.5	101.4	0.1
2	1560LINE	NORWALK	FLAX HIL	1	256	266.2	267.0	101.5	258.0	259.2	101.2	0.3
2	1250LINE	NORWALK	FLAX HIL	1	256	266.2	266.9	101.5	258.0	258.7	101.1	0.4
2	694LINE	NORWALK	FLAX HIL	1	256	266.2	267.2	101.5	258.0	258.9	101.1	0.4
2	310LINE	NORWALK	FLAX HIL	1	256	266.2	267.0	101.5	258.0	258.3	100.9	0.6
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	266.2	267.0	101.5	258.0	258.2	100.9	0.6
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	266.2	267.0	101.5	258.0	258.2	100.9	0.6
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	258.0	100.8	0.7
2	1208LINE	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	257.9	100.7	0.8
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	266.2	267.1	101.5	258.0	257.9	100.7	0.8
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	266.2	267.0	101.5	258.0	257.6	100.6	0.9
2	1342LINE	NORWALK	FLAX HIL	1	256	266.2	266.9	101.5	258.0	257.2	100.5	1.0
2	329LINE	NORWALK	FLAX HIL	1	256	266.2	266.5	101.5	258.0	257.3	100.5	1.0
2	BOKUM2T	NORWALK	FLAX HIL	1	256	266.2	266.9	101.5	258.0	257.2	100.5	1.0
2	BOKUM3T	NORWALK	FLAX HIL	1	256	266.2	266.9	101.5	258.0	257.2	100.5	1.0
2	310-368DCT	NORWALK	FLAX HIL	1	256	266.2	266.9	101.5	258.0	256.5	100.2	1.3
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	266.2	266.9	101.4	258.0	259.2	101.2	0.2
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	266.2	266.9	101.4	258.0	259.2	101.2	0.2
2	400LINE	NORWALK	FLAX HIL	1	256	266.2	266.9	101.4	258.0	258.7	101.1	0.3
2	8804ALINE	NORWALK	FLAX HIL	1	256	266.2	266.8	101.4	258.0	258.9	101.1	0.3
2	8904BLINE	NORWALK	FLAX HIL	1	256	266.2	266.8	101.4	258.0	258.9	101.1	0.3
2	1280LINE	NORWALK	FLAX HIL	1	256	266.2	266.8	101.4	258.0	258.5	101.0	0.4
2	667-690LINE	NORWALK	FLAX HIL	1	256	266.2	266.7	101.4	258.0	258.5	101.0	0.4
2	1760LINE	NORWALK	FLAX HIL	1	256	266.2	266.9	101.4	258.0	258.2	100.8	0.6
2	1887LINE	NORWALK	FLAX HIL	1	256	266.2	266.8	101.4	258.0	258.2	100.8	0.6
2	1990LINE	NORWALK	FLAX HIL	1	256	266.2	266.7	101.4	258.0	257.9	100.8	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	266.2	266.7	101.4	258.0	258.0	100.8	0.6
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	266.2	266.8	101.4	258.0	257.9	100.8	0.6
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	266.2	266.3	101.4	258.0	256.9	100.3	1.1
2	SGTN7TSTK	NORWALK	FLAX HIL	1	256	266.2	266.7	101.4				
2	8100LINE	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	259.0	101.2	0.1
2	8200LINE	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	259.0	101.2	0.1
2	GRNDV1TSTK	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	259.1	101.2	0.1
2	GRNDV3TSTK	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	259.1	101.2	0.1
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.4	101.0	0.3
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.5	101.0	0.3
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.4	101.0	0.3
2	1445LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.3	258.0	258.2	100.9	0.4
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.4	100.9	0.4
2	1585LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.3	258.0	258.2	100.9	0.4
2	1607LINE	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.4	100.9	0.4
2	1730BLINE	NORWALK	FLAX HIL	1	256	266.2	266.5	101.3	258.0	258.3	100.9	0.4
2	1870LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.3	258.0	258.2	100.9	0.4
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	266.2	266.5	101.3	258.0	258.3	100.9	0.4
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	266.2	266.5	101.3	258.0	258.3	100.9	0.4
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	266.2	266.6	101.3	258.0	258.3	100.9	0.4
2	1272LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.3	258.0	258.2	100.8	0.5
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	260.3	101.7	-0.5
2	8400LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	259.0	101.2	0.0
3	SCOVK5TSTK	NORWALK	FLAX HIL	1	256				247.7	258.7	101.1	
2	84004LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.5	101.0	
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.5	101.0	0.2
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	258.4	100.9	0.3
2	1640LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.3	100.9	0.3
2	381LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	258.2	100.9	0.3
2	381LREAC	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	258.2	100.9	0.3
2	GRNDV2TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.4	100.9	0.3
2	1060-1270DCT	NORWALK	FLAX HIL	1	256	266.2	266.0	101.2	258.0	257.9	100.8	0.4
2	1060LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.2	258.0	257.9	100.8	0.4
2	1070LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1090LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1191LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.0	100.8	0.4
2	1270LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.2	258.0	258.0	100.8	0.4
2	1337LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.2	258.0	258.0	100.8	0.4
2	1440LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.1	100.8	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1443LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.0	100.8	0.4
2	1466LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.8	0.4
2	1588LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.8	0.4
2	1655LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.8	0.4
2	1668LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1670-1771DCT	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.1	100.8	0.4
2	1670LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1675LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1685LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.1	100.8	0.4
2	1704LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1721LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1740LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1753LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1759LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.0	100.8	0.4
2	1765LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1769LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.8	0.4
2	1771LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1785LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1792LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1900LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1921LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.8	0.4
2	8500LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	8700LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	88003ALINE-1	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.1	100.8	0.4
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	258.1	100.8	0.4
2	89003BLINE-1	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.1	100.8	0.4
2	89005BLINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.0	100.8	0.4
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	258.1	100.8	0.4
2	9502LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.0	100.8	0.4
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	258.1	100.8	0.4
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	258.0	100.8	0.4
2	1261LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	257.7	100.7	0.5
2	1508LINE	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	257.7	100.7	0.5
2	1620SLINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	257.7	100.7	0.5
2	1835LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.9	100.7	0.5
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.8	100.7	0.5
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	266.2	266.3	101.2	258.0	257.9	100.7	0.5
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	266.2	266.4	101.2	258.0	257.6	100.6	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	FROSTBR21T	NORWALK	FLAX HIL	1	256	266.2	266.1	101.2	258.0	257.5	100.6	0.6
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	266.2	266.1	101.2	258.0	257.4	100.6	0.6
2	1630LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.3	100.5	0.7
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.2	258.0	257.3	100.5	0.7
2	BASE CASE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	262.0	102.4	-1.3
2	8300LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	258.2	100.9	0.2
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.4	100.9	0.2
2	1100LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.8	0.3
2	1200LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.8	0.3
2	1410LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.0	100.8	0.3
2	1440-1450DCT	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.8	0.3
2	1460LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	258.1	100.8	0.3
2	1490LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.8	0.3
2	1537LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	258.1	100.8	0.3
2	1580LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	258.0	100.8	0.3
2	1594LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.0	100.8	0.3
2	1756LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.0	100.8	0.3
2	1779LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.0	100.8	0.3
2	1788LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	1825LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	1830LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.8	0.3
2	9500LINE	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	258.0	100.8	0.3
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	258.0	100.8	0.3
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	LOBPTENGF	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	LOSSNOR1	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	LOSSNOR2	NORWALK	FLAX HIL	1	256	266.2	266.2	101.1	258.0	257.9	100.8	0.3
2	100LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1050LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1060-1165DCT	NORWALK	FLAX HIL	1	256	266.2	265.8	101.1	258.0	257.7	100.7	0.4
2	1163LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.8	100.7	0.4
2	1165LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.9	100.7	0.4
2	1206LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.9	100.7	0.4
2	1207LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4
2	1310LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1394LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1450LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1550LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4
2	1572LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1620N-1975DC	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1620NLINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.9	100.7	0.4
2	1625LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4
2	1751LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1752LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4
2	1763LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1766LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.8	100.7	0.4
2	1767LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1772LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.9	100.7	0.4
2	1775LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1777-1779DCT	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1777LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1786LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	1800-1860LNS	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.8	100.7	0.4
2	1810LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.8	100.7	0.4
2	1910LINE	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1950LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	257.7	100.7	0.4
2	1975LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.8	100.7	0.4
2	347LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	257.8	100.7	0.4
2	347LREAC	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	257.8	100.7	0.4
2	689LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	693LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.9	100.7	0.4
2	8600LINE	NORWALK	FLAX HIL	1	256	266.2	266.1	101.1	258.0	257.8	100.7	0.4
2	HADDAM1T	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.9	100.7	0.4
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.7	100.7	0.4
2	1720LINE	NORWALK	FLAX HIL	1	256	266.2	266.3	101.1	258.0	257.6	100.6	0.5
2	88005ALINE-2	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.5	100.6	0.5
2	89005BLINE-2	NORWALK	FLAX HIL	1	256	266.2	266.0	101.1	258.0	257.5	100.6	0.5
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	266.2	265.9	101.1	258.0	257.6	100.6	0.5
3	PLUMNOR	NORWALK	FLAX HIL	1	256	256.9	268.2	101.1				
2	EDEVDEV2	NORWALK	FLAX HIL	1	256	266.2	265.3	101.0	258.0	260.5	101.8	-0.8
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				258.0	257.9	100.8	
2	1080-1280DCT	NORWALK	FLAX HIL	1	256	266.2	265.9	101.0	258.0	257.7	100.7	0.3
2	1515LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.0	258.0	257.7	100.7	0.3
2	383LINE	NORWALK	FLAX HIL	1	256	266.2	265.8	101.0	258.0	257.7	100.7	0.3
2	1207-1775DCT	NORWALK	FLAX HIL	1	256	266.2	265.6	101.0	258.0	257.5	100.6	0.4
2	1751-1777DCT	NORWALK	FLAX HIL	1	256	266.2	265.6	101.0	258.0	257.4	100.6	0.4
2	1773LINE	NORWALK	FLAX HIL	1	256	266.2	265.6	101.0	258.0	257.6	100.6	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1783LINE	NORWALK	FLAX HIL	1	256	266.2	265.9	101.0	258.0	257.6	100.6	0.4
2	301-302LNS	NORWALK	FLAX HIL	1	256	266.2	265.8	101.0	258.0	257.6	100.6	0.4
2	1876LINE	NORWALK	FLAX HIL	1	256	266.2	265.8	101.0	258.0	257.1	100.4	0.6
2	BRANFORD2T	NORWALK	FLAX HIL	1	256	266.2	265.5	100.9	258.0	258.1	100.8	0.1
2	ESHORORANGE	NORWALK	FLAX HIL	1	256				258.0	257.7	100.7	
2	1784LINE	NORWALK	FLAX HIL	1	256	266.2	265.6	100.9	258.0	257.6	100.6	0.3
2	1570LINE	NORWALK	FLAX HIL	1	256	266.2	265.3	100.9	258.0	257.4	100.5	0.4
2	1726LINE	NORWALK	FLAX HIL	1	256	266.2	265.4	100.9	258.0	257.2	100.5	0.4
2	1732LINE	NORWALK	FLAX HIL	1	256	266.2	265.5	100.9	258.0	257.4	100.5	0.4
2	1821LINE	NORWALK	FLAX HIL	1	256	266.2	265.6	100.9	258.0	257.4	100.5	0.4
2	1836LINE	NORWALK	FLAX HIL	1	256	266.2	265.6	100.9	258.0	257.4	100.5	0.4
2	500LINE	NORWALK	FLAX HIL	1	256	266.2	265.5	100.9	258.0	257.3	100.5	0.4
2	DEVON7TSTK	NORWALK	FLAX HIL	1	256	266.2	265.3	100.9	258.0	257.4	100.5	0.4
2	1618LINE	NORWALK	FLAX HIL	1	256	266.2	265.4	100.9	258.0	256.9	100.3	0.6
2	368LINE	NORWALK	FLAX HIL	1	256	266.2	265.4	100.9	258.0	256.5	100.2	0.7
2	371-383DCT	NORWALK	FLAX HIL	1	256	266.2	265.4	100.9				
2	1570-1580DCT	NORWALK	FLAX HIL	1	256	266.2	265.2	100.8	258.0	257.4	100.6	0.2
2	1080-1490DCT	NORWALK	FLAX HIL	1	256	266.2	265.2	100.8	258.0	257.0	100.4	0.4
2	1080LINE	NORWALK	FLAX HIL	1	256	266.2	265.3	100.8	258.0	257.1	100.4	0.4
2	329-352DCT	NORWALK	FLAX HIL	1	256	266.2	264.4	100.8	258.0	256.1	100.0	0.8
2	352+AUTO	NORWALK	FLAX HIL	1	256	266.2	264.4	100.8	258.0	256.1	100.0	0.8
2	DEVISING1	NORWALK	FLAX HIL	1	256	266.2	264.8	100.7	258.0	257.1	100.4	0.3
2	1238+1813LNS	NORWALK	FLAX HIL	1	256	266.2	264.8	100.7	258.0	256.2	100.1	0.6
2	1545LINE	NORWALK	FLAX HIL	1	256	266.2	264.6	100.6	258.0	256.9	100.4	0.2
2	1300LINE	NORWALK	FLAX HIL	1	256	266.2	264.4	100.5	258.0	256.2	100.1	0.4
2	ONE 1385	NORWALK	FLAX HIL	1	256	266.2	264.4	100.5	258.0	256.3	100.1	0.4
2	371+AUTO	NORWALK	FLAX HIL	1	256	266.2	264.3	100.5				
2	371LINE	NORWALK	FLAX HIL	1	256	266.2	264.4	100.5				
2	WESTON1T	NORWALK	FLAX HIL	1	256	266.2	264.5	100.4	258.0	261.7	102.2	-1.8
3	1310-1763DCT	NORWALK	FLAX HIL	1	256	256.9	266.1	100.4	247.7	256.8	100.3	0.1
2	NORSING1	NORWALK	FLAX HIL	1	256	266.2	263.0	100.4	258.0	256.9	100.3	0.1
2	1622-1887DCT	NORWALK	FLAX HIL	1	256	266.2	264.1	100.4				
2	1813LINE	NORWALK	FLAX HIL	1	256	266.2	264.0	100.4				
2	DEVON23TSTK	NORWALK	FLAX HIL	1	256	266.2	264.1	100.4				
2	DEVON25TSTK	NORWALK	FLAX HIL	1	256	266.2	264.1	100.4				
2	SHEPAUG13A	NORWALK	FLAX HIL	1	256	266.2	264.1	100.4				
2	1722LINE	NORWALK	FLAX HIL	1	256	266.2	263.8	100.3				
2	348N+AUTO	NORWALK	FLAX HIL	1	256	266.2	263.8	100.3				
2	SGTN1TSTK	NORWALK	FLAX HIL	1	256	266.2	263.7	100.3				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1545+SPS	NORWALK	FLAX HIL	1	256	266.2	263.4	100.2	258.0	256.2	100.1	0.1
2	1238LINE	NORWALK	FLAX HIL	1	256	266.2	263.5	100.2				
2	1622LINE	NORWALK	FLAX HIL	1	256	266.2	263.5	100.2				
2	PEQUON42TSTK	NORWALK	FLAX HIL	1	256	266.2	263.0	100.2				
2	1730CLINE	NORWALK	FLAX HIL	1	256	266.2	263.2	100.1				
2	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	266.2	263.2	100.1				
2	HADDAMBT	NORWALK	FLAX HIL	1	256				258.0	256.3	100.1	
2	SINGERSTK	NORWALK	FLAX HIL	1	256				258.0	256.1	100.1	
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	181.3	430.2	158.1	174.3	416.7	158.4	-0.3
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	153.1	410.2	150.7	145.0	395.0	150.2	0.5
4	113091001DCT	NWLK HAR	ELYAVE	1	263	153.1	294.6	108.4	145.0	285.1	108.4	0.0
5	113091001DCT	NWLK HAR	ELYAVE	1	263	181.3	293.6	108.0	174.3	284.2	108.1	-0.1
5	91001LINE	NWLK HAR	ELYAVE	1	263	181.3	275.6	101.4	174.3	266.6	101.4	0.0
5	NORWALKST2	NWLK HAR	ELYAVE	1	263	181.3	273.1	100.3				
5	1416-1880DCT	NWLK HAR	ELYAVE	1	263	181.3	272.5	100.1				
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	195.3	328.5	104.4	189.4	317.0	104.3	0.1
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	181.4	328.3	104.3	174.8	317.0	104.3	0.0
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.2	284.3	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	357.3	283.6	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	357.3	283.5	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		57.9	356.5	283.0	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.2	181.1	58.1	228.2	181.1	0.0
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.1	58.0	227.8	180.8	-0.7
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.0	58.0	227.7	180.7	-0.7
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	225.9	179.1	57.9	227.4	180.5	-1.4
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1			NC		79.7	244.8	177.4	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1			NC		79.5	242.2	175.5	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1			NC		79.6	241.1	174.7	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1			NC		79.4	238.5	172.9	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.1	104.8	79.7	144.6	104.7	0.1
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.2	79.6	144.3	104.6	-0.4
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.1	79.5	144.2	104.5	-0.4
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.5	144.6	103.6	79.4	144.0	104.4	-0.8
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.6	79.7	138.9	100.7	-0.1
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.6	138.8	100.6	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.2	79.5	138.6	100.4	-0.2
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.1	79.4	138.5	100.4	-0.3
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.1	84.2	224.3	135.2	-0.1
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.4	84.0	223.6	134.7	-0.3
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.3	84.1	223.9	134.9	-0.6
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.1	224.6	133.7	84.1	224.0	134.9	-1.2
2	1416-1867DCT	RYTN J A	NORWALK	1	256	247.9	474.2	181.2	240.1	462.9	180.8	0.4
2	1867-1890DCT	RYTN J A	NORWALK	1	256	247.9	466.7	178.2	240.1	450.8	176.1	2.1
3	1416-1867DCT	RYTN J A	NORWALK	1	256	237.9	462.6	175.0	229.6	448.5	175.2	-0.2
3	1867-1890DCT	RYTN J A	NORWALK	1	256	237.9	456.8	172.6	229.6	438.8	171.4	1.2
2	1867-1977DCT	RYTN J A	NORWALK	1	256	247.9	447.1	170.7	240.1	435.7	170.2	0.5
3	1867-1977DCT	RYTN J A	NORWALK	1	256	237.9	435.3	164.5	229.6	421.4	164.6	-0.1
2	113091001DCT	RYTN J A	NORWALK	1	256	247.9	413.4	158.2	240.1	404.2	157.9	0.3
2	1389LINE	RYTN J A	NORWALK	1	256	247.9	411.0	156.3	240.1	398.1	155.5	0.8
3	113091001DCT	RYTN J A	NORWALK	1	256	237.9	407.7	154.7	229.6	398.6	155.7	-1.0
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	247.9	394.9	150.1	240.1	381.5	149.0	1.1
3	1389LINE	RYTN J A	NORWALK	1	256	237.9	397.2	149.6	229.6	382.1	149.2	0.4
2	1130-1430DCT	RYTN J A	NORWALK	1	256	247.9	381.0	145.4	240.1	371.2	145.0	0.4
2	1867LINE	RYTN J A	NORWALK	1	256	247.9	380.4	145.0	240.1	367.1	143.4	1.6
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	247.9	380.4	145.0	240.1	367.1	143.4	1.6
2	1416-1890DCT	RYTN J A	NORWALK	1	256	247.9	378.4	144.5	240.1	369.0	144.1	0.4
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	237.9	381.4	143.5	229.6	365.9	142.9	0.6
3	1130-1430DCT	RYTN J A	NORWALK	1	256	237.9	375.3	142.1	229.6	365.9	142.9	-0.8
3	1416-1890DCT	RYTN J A	NORWALK	1	256	237.9	373.2	141.3	229.6	363.8	142.1	-0.8
3	1867LINE	RYTN J A	NORWALK	1	256	237.9	366.4	138.2	229.6	351.3	137.2	1.0
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	237.9	366.4	138.2	229.6	351.3	137.2	1.0
2	1890-1977DCT	RYTN J A	NORWALK	1	256	247.9	354.5	135.3	240.1	345.1	134.8	0.5
3	1890-1977DCT	RYTN J A	NORWALK	1	256	237.9	349.3	132.2	229.6	340.1	132.8	-0.6
2	91001LINE	RYTN J A	NORWALK	1	256	247.9	325.1	123.9	240.1	316.3	123.6	0.3
3	91001LINE	RYTN J A	NORWALK	1	256	237.9	317.2	119.9	229.6	308.0	120.3	-0.4
2	1130LINE	RYTN J A	NORWALK	1	256	247.9	304.5	116.0	240.1	296.0	115.6	0.4
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	247.9	304.5	115.8	240.1	295.8	115.5	0.3
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				240.1	292.3	114.2	
2	1430LINE	RYTN J A	NORWALK	1	256	247.9	299.1	113.8	240.1	290.5	113.5	0.3
2	1130+1416LNS	RYTN J A	NORWALK	1	256	247.9	295.0	112.3	240.1	286.6	112.0	0.3
2	SASCOCR1T	RYTN J A	NORWALK	1	256	247.9	294.7	112.1	240.1	285.7	111.6	0.5
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	237.9	296.6	111.9	229.6	287.7	112.4	-0.5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1890LINE	RYTN J A	NORWALK	1	256	247.9	294.0	111.9	240.1	285.0	111.3	0.6
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	247.9	294.0	111.9	240.1	285.0	111.3	0.6
3	1130LINE	RYTN J A	NORWALK	1	256	237.9	296.0	111.8	229.6	287.2	112.2	-0.4
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	247.9	293.9	111.8	240.1	285.4	111.5	0.3
2	1416LINE	RYTN J A	NORWALK	1	256	247.9	293.4	111.7	240.1	284.2	111.0	0.7
3	1430LINE	RYTN J A	NORWALK	1	256	237.9	291.1	109.8	229.6	282.5	110.4	-0.6
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				229.6	282.3	110.3	
3	SASCOCR1T	RYTN J A	NORWALK	1	256	237.9	287.1	108.3	229.6	277.8	108.5	-0.2
3	1130+1416LNS	RYTN J A	NORWALK	1	256	237.9	286.5	108.2	229.6	277.9	108.5	-0.3
3	1890LINE	RYTN J A	NORWALK	1	256	237.9	286.5	108.1	229.6	277.1	108.2	-0.1
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	237.9	286.5	108.1	229.6	277.1	108.2	-0.1
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	237.9	286.4	108.0	229.6	277.4	108.4	-0.4
3	1416LINE	RYTN J A	NORWALK	1	256	237.9	284.8	107.6	229.6	275.6	107.7	-0.1
2	DARIEN1T	RYTN J A	NORWALK	1	256	247.9	282.7	107.6	240.1	274.5	107.2	0.4
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	247.9	279.6	106.4	240.1	271.3	106.0	0.4
2	1977LINENEW	RYTN J A	NORWALK	1	256	247.9	278.9	106.1	240.1	270.6	105.7	0.4
3	DARIEN1T	RYTN J A	NORWALK	1	256	237.9	274.3	103.5	229.6	265.9	103.9	-0.4
2	1460-387DCT	RYTN J A	NORWALK	1	256	247.9	271.1	103.3	229.6	256.2	100.1	3.2
2	387+AUTOS	RYTN J A	NORWALK	1	256	247.9	271.1	103.3				
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	247.9	270.4	102.8	240.1	261.7	102.2	0.6
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	237.9	271.1	102.3	229.6	262.6	102.6	-0.3
3	1977LINENEW	RYTN J A	NORWALK	1	256	237.9	270.4	102.1	229.6	261.9	102.3	-0.2
2	SINGAUT	RYTN J A	NORWALK	1	256	247.9	263.5	100.1				
2	8100-8200DCT	RYTN J A	NORWALK	1	256				240.1	258.6	101.0	
3	387LINE	RYTN J A	NORWALK	1					229.6	256.5	100.2	
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	181.9	409.8	144.0	176.2	395.6	144.4	-0.4
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	168.2	407.6	143.3	161.6	395.4	144.3	-1.0
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1215.0	1700.6	106.0	
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1184.7	1686.7	105.2	
2	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1215.0	1607.5	100.2	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				156.0	263.9	104.3	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				154.8	263.6	104.2	
3	NORSING1	SINGNOR2	NORSING2	1	794	488.3	873.3	109.5				
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.4	365.6	123.2	112.7	356.0	123.2	0.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x			East Shore Alternative (PowerGEM) Cases 2B-5B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.6	365.6	123.2	113.0	356.0	123.2	0.0
4	1440-1450DCT	SO.END	GLNBRK J	1	289	113.1	365.6	123.2	109.6	356.0	123.2	0.0
5	1440-1450DCT	SO.END	GLNBRK J	1	289	112.3	365.6	123.2	108.8	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	260.9	596.6	102.0	279.5	708.2	121.1	-19.1
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	260.4	586.1	100.2	280.1	698.8	119.4	-19.2
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				265.8	648.1	110.8	
4	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				255.1	624.0	106.7	
2	1060-1165DCT	TRIANGLE	MIDDLRIV	1	134	22.8	147.0	111.4	22.8	146.7	110.2	1.2
4	1060-1165DCT	TRIANGLE	MIDDLRIV	1	134	22.8	146.8	110.8	22.8	146.9	110.9	-0.1
5	1060-1165DCT	TRIANGLE	MIDDLRIV	1	134	22.8	146.8	110.7	22.8	146.9	111.0	-0.3
3	1060-1165DCT	TRIANGLE	MIDDLRIV	1	134	22.8	146.7	110.2	22.8	146.8	110.4	-0.2
4	DEVON2TSTK	TRMB J A	PEQUONIC	1					58.9	234.8	101.7	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	49.9	282.2	100.6				
5	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	56.6	280.8	100.1				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.4	299.0	124.8	69.5	298.4	124.8	0.0
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	69.9	298.4	124.8	0.0
5	SOUTHEND6T	WATERSDE	COS COB	1	239	72.0	299.0	124.8	70.0	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.7	102.5	0.0
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.7	102.5	0.0
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.1	367.3	102.5	132.9	360.7	102.5	0.0
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	133.0	360.7	102.5	0.0

Appendix A2
Voltage Results
New Haven Harbor On, NE-NY=0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

**Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5**

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x		East Shore Alternative (PowerGEM) Cases 2B-5B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	1545-1570DCT	ANSONIA	115	1.006	0.894		
2	DEVON6TSTK	ANSONIA	115	1.006	0.894		
5	1272-1721DCT	BALDWINB	115	1.009	0.874	1.007	0.865
2	1272-1721DCT	BALDWINB	115	1.008	0.881	1.008	0.877
4	1272-1721DCT	BALDWINB	115	1.010	0.885	1.007	0.885
3	1272-1721DCT	BALDWINB	115	1.012	0.886	1.009	0.885
5	BUNKERH2T	BALDWINB	115			1.007	0.896
5	1272-1721DCT	BCNFL PF	115			0.997	0.894
3	BRANFORD4T	BRANFORD	115	1.034	1.055	1.031	1.052
4	BRANFORD4T	BRANFORD	115	1.035	1.055	1.034	1.054
5	1272-1721DCT	BUNKER H	115	1.019	0.875	1.017	0.865
2	1272-1721DCT	BUNKER H	115	1.017	0.881	1.018	0.877
4	1272-1721DCT	BUNKER H	115	1.019	0.885	1.016	0.885
3	1272-1721DCT	BUNKER H	115	1.021	0.886	1.019	0.885
5	BUNKERH2T	BUNKER H	115			1.017	0.898

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x		East Shore Alternative (PowerGEM) Cases 2B-5B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	GRNDAV7TSTK	ELMWST A	115	1.030	0.880	1.028	0.896
5	WRIVER1TSTK	ELMWST A	115	1.030	0.882	1.028	0.898
2	GRNDAV7TSTK	ELMWST A	115	1.030	0.885		
5	GRNDAV6TSTK	ELMWST A	115	1.030	0.886		
2	WRIVER1TSTK	ELMWST A	115	1.030	0.886		
3	WRIVER1TSTK	ELMWST A	115	1.033	0.891		
3	GRNDAV7TSTK	ELMWST A	115	1.033	0.892		
2	GRNDAV6TSTK	ELMWST A	115	1.030	0.893		
4	WRIVER1TSTK	ELMWST A	115	1.034	0.894		
4	GRNDAV7TSTK	ELMWST A	115	1.034	0.895		
3	GRNDAV6TSTK	ELMWST A	115	1.033	0.895		
4	GRNDAV6TSTK	ELMWST A	115	1.034	0.899		
5	GRNDAV4TSTK	ELMWST B	115	1.030	0.877	1.028	0.894
5	WRIVER2TSTK	ELMWST B	115	1.030	0.879	1.028	0.896
2	GRNDAV4TSTK	ELMWST B	115	1.030	0.882		
5	GRNDAV5TSTK	ELMWST B	115	1.030	0.883	1.028	0.899
2	WRIVER2TSTK	ELMWST B	115	1.030	0.884		
2	GRNDAV5TSTK	ELMWST B	115	1.030	0.885		
3	WRIVER2TSTK	ELMWST B	115	1.033	0.888		
3	GRNDAV4TSTK	ELMWST B	115	1.033	0.889		
4	WRIVER2TSTK	ELMWST B	115	1.034	0.892		
4	GRNDAV4TSTK	ELMWST B	115	1.034	0.892		
3	GRNDAV5TSTK	ELMWST B	115	1.033	0.893		
4	GRNDAV5TSTK	ELMWST B	115	1.034	0.896		

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-x		East Shore Alternative (PowerGEM) Cases 2B-5B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	1272-1721DCT	FREIGHT	115	1.020	0.873	1.019	0.864
2	1272-1721DCT	FREIGHT	115	1.019	0.880	1.019	0.876
4	1272-1721DCT	FREIGHT	115	1.021	0.883	1.018	0.883
3	1272-1721DCT	FREIGHT	115	1.023	0.884	1.020	0.883
2	1545-1570DCT	IND.WELL	115	1.006	0.884		
2	DEVON6TSTK	IND.WELL	115	1.006	0.884		
5	1545-1570DCT	IND.WELL	115	1.006	0.899		
5	DEVON6TSTK	IND.WELL	115	1.006	0.899		
4	1545-1570DCT	IND.WELL	115	1.008	0.899		
4	DEVON6TSTK	IND.WELL	115	1.008	0.899		
3	NOHAVN2TSTK	NO.HAVEN	115	1.043	1.052	1.041	1.050
4	NOHAVN2TSTK	NO.HAVEN	115	1.044	1.053	1.043	1.053
5	1272-1721DCT	SO.NAUG	115			1.007	0.895

Appendix B1
Thermal Results
New Haven Harbor Off, NE-NY=0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Worst Case Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

Kleen Energy Dispatched in Place of New Haven Harbor

Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 6, 7, 8 & 9 (PowerGEM)

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1618-321DCT	BALDWNJA	FROST BR	1	287				178.4	307.4	107.1	174.4	297.8	103.8	
2	SCOVK8TSTK	BALDWNJB	BUNKER H	1	165							107.0	167.3	101.4	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	11.4	133.0	131.9	23.7	149.5	133.5	21.9	149.4	133.4	-1.5
3	1389-1880DCT	CRRRA JCT	ASHCREEK	1	439				277.2	440.1	100.3	277.9	441.5	100.6	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	47.0	121.8	108.0							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	228.6	475.7	181.9	219.9	463.1	180.9	221.5	466.2	182.1	-0.2
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				864.9	1533.1	106.0	845.5	1534.2	106.1	
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				141.2	273.7	120.1	136.9	273.9	120.1	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.1	445.4	154.5	172.0	430.6	154.3	172.0	430.5	154.3	0.2
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	184.9	467.3	102.9	178.3	451.6	102.9	178.3	451.4	102.8	0.1
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	170.1	444.1	148.8	164.2	428.4	148.2	164.1	428.3	148.2	0.6
5	1620SLINE	HADDAM	BOKUM	1	165	102.7	179.7	109.8	114.8	203.6	123.4	113.0	200.3	121.4	-11.6
2	1261LINE	HADDAM	BOKUM	2	191				117.8	204.9	107.3	115.9	201.6	105.6	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.4	226.4	22.5	303.3	226.3	
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	273.4	521.4	199.3	263.6	507.4	198.2	265.2	510.5	199.4	-0.1
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	189.9	436.2	160.3	179.1	420.1	159.7	179.0	419.7	159.6	0.7
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	190.9	328.4	104.4	186.8	316.9	104.3	185.9	316.9	104.3	0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.2	362.7	287.9	58.1	362.5	287.7	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.8	260.5	188.7	79.7	260.0	188.4	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	225.0	135.2	84.3	224.6	135.3	84.3	224.5	135.2	0.0
2	1416-1867DCT	RYTN J A	NORWALK	1	256	255.2	483.2	184.8	245.9	470.5	183.8	247.6	473.6	185.0	-0.2
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	177.5	408.5	143.5	173.6	395.2	144.2	172.6	392.8	143.4	0.1
2	SGTN4TSTK	SCOVLRK	E.SHORE	1	1604				1455.1	1996.4	124.5	1503.7	2043.9	106.9	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				166.9	283.2	111.9	164.6	279.1	110.3	
3	NORSING1	SINGNOR2	NORSING2	1	794	484.0	865.0	108.6							
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.2	365.6	123.2	112.6	356.0	123.2	112.6	356.0	123.2	0.0
5	1460-387DCT	SOUTHGTN	MERID362	1	1912				1215.0	2017.5	105.5	1189.5	2017.8	105.5	
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	264.7	610.0	104.3	286.9	742.0	126.8	284.8	730.3	124.8	-20.5
2	SCOVK8TSTK	SOUTHGTN	WLNGF PF	1	330				179.3	337.0	102.1	173.8	345.0	104.5	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.7	102.5	132.4	360.7	102.5	0.0
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	195.9	295.3	119.6							

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
Kleen Energy Dispatched in Place of New Haven Harbor
Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 6, 7, 8 & 9 (PowerGEM)

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1618-321DCT	BALDWNJA	FROST BR	1	287				178.4	307.4	107.1	174.4	297.8	103.8	
2	1460-387DCT	BALDWNJA	FROST BR	1	287				178.4	303.8	105.9	174.4	304.0	105.9	
2	387LINE	BALDWNJA	FROST BR	1	287				178.4	299.2	104.3	174.4	299.4	104.3	
2	SCOVK8TSTK	BALDWNJA	FROST BR	1	287				178.4	298.0	103.8	174.4	305.3	106.4	
2	1887-321DCT	BALDWNJA	FROST BR	1	287				178.4	294.9	102.8				
5	1460-387DCT	BALDWNJA	FROST BR	1	287				171.2	293.6	102.3	167.1	293.3	102.2	
5	387LINE	BALDWNJA	FROST BR	1	287				171.2	289.3	100.8	167.1	289.1	100.7	
2	SCOVK8TSTK	BALDWNJB	BUNKER H	1	165							107.0	167.3	101.4	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	11.4	133.0	131.9	23.7	149.5	133.5	21.9	149.4	133.4	-1.5
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	12.1	132.3	129.9	25.7	147.1	131.3	24.1	146.9	131.2	-1.3
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	17.1	131.0	127.9	10.2	143.5	128.1	10.4	143.4	128.0	-0.1
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	32.2	130.1	127.1	23.8	142.2	127.0	24.7	142.2	126.9	0.2
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	11.4	111.5	107.6	23.7	123.0	109.8	21.9	122.8	109.6	-2.0
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	12.1	110.9	106.3	25.7	120.9	107.9	24.1	120.7	107.8	-1.5
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	17.1	109.7	104.7	10.2	117.5	104.9	10.4	117.2	104.6	0.1
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	32.2	108.7	103.8	23.8	116.0	103.6	24.7	115.9	103.5	0.3
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439				277.2	440.1	100.3	277.9	441.5	100.6	
2	1389-1880DCT	CRRA JCT	ASHCREEK	1	439							268.4	439.5	100.1	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	47.0	121.8	108.0							
2	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	46.0	119.8	106.0							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	228.6	475.7	181.9	219.9	463.1	180.9	221.5	466.2	182.1	-0.2
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	216.5	461.4	175.3	208.9	448.8	175.3	210.0	450.8	176.1	-0.8
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	228.6	448.8	171.4	219.9	435.9	170.3	221.5	439.0	171.5	-0.1
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	216.5	434.3	164.9	208.9	421.7	164.7	210.0	423.7	165.5	-0.6
2	113091001DCT	FLAX HIL	RYTN J B	1	256	228.6	388.3	148.5	219.9	380.5	148.6	221.5	382.8	149.5	-1.0
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	228.6	383.0	146.0	219.9	369.5	144.3	221.5	372.2	145.4	0.6
2	1880LINE	FLAX HIL	RYTN J B	1	256	228.6	382.8	145.9	219.9	367.2	143.4	221.5	369.8	144.5	1.4
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	228.6	382.8	145.9	219.9	367.2	143.4	221.5	369.8	144.5	1.4
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	228.6	381.7	145.4	219.9	365.5	142.8	221.5	368.2	143.8	1.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	113091001DCT	FLAX HIL	RYTN J B	1	256	216.5	380.7	144.8	208.9	374.7	146.4	210.0	376.2	147.0	-2.2
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	216.5	366.5	138.8	208.9	352.6	137.7	210.0	354.4	138.4	0.4
3	1880LINE	FLAX HIL	RYTN J B	1	256	216.5	366.3	138.8	208.9	351.1	137.1	210.0	352.9	137.8	1.0
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	216.5	366.3	138.8	208.9	351.1	137.1	210.0	352.9	137.8	1.0
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	228.6	361.7	138.3	219.9	351.2	137.2	221.5	351.0	137.1	1.2
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	216.5	363.7	137.6	208.9	347.7	135.8	210.0	349.5	136.5	1.1
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	228.6	356.1	135.8	219.9	347.7	135.8	221.5	350.0	136.7	-0.9
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	228.6	352.7	134.7	219.9	344.7	134.7	221.5	347.0	135.6	-0.9
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	216.5	351.8	133.6	208.9	340.3	132.9	210.0	340.2	132.9	0.7
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	216.5	348.5	132.3	208.9	342.2	133.7	210.0	343.7	134.3	-2.0
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	216.5	345.7	131.3	208.9	339.5	132.6	210.0	341.0	133.2	-1.9
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	228.6	329.0	125.5	219.9	320.9	125.4	221.5	323.2	126.3	-0.8
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	216.5	322.1	122.2	208.9	315.9	123.4	210.0	317.4	124.0	-1.8
2	91001LINE	FLAX HIL	RYTN J B	1	256	228.6	303.4	115.6	219.9	294.7	115.1	221.5	296.6	115.9	-0.3
3	91001LINE	FLAX HIL	RYTN J B	1	256	216.5	293.6	111.3	208.9	286.1	111.8	210.0	287.5	112.3	-1.0
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	228.6	284.6	108.4	219.9	272.7	106.5	221.5	272.5	106.4	2.0
2	1130LINE	FLAX HIL	RYTN J B	1	256	228.6	282.9	107.7	219.9	274.2	107.1	221.5	276.1	107.8	-0.1
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	228.6	283.0	107.6	219.9	274.3	107.1	221.5	276.2	107.9	-0.3
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				219.9	271.4	106.0	221.5	273.4	106.8	
2	1430LINE	FLAX HIL	RYTN J B	1	256	228.6	277.6	105.6	219.9	269.2	105.1	221.5	271.1	105.9	-0.3
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	228.6	273.4	104.1	219.9	264.9	103.5	221.5	266.7	104.2	-0.1
2	SASCCR1T	FLAX HIL	RYTN J B	1	256	228.6	272.7	103.8	219.9	263.8	103.1	221.5	265.8	103.8	
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	228.6	271.9	103.5	219.9	263.4	102.9	221.5	265.4	103.7	-0.2
2	1890LINE	FLAX HIL	RYTN J B	1	256	228.6	272.0	103.5	219.9	263.1	102.8	221.5	265.1	103.5	
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	228.6	272.0	103.5	219.9	263.1	102.8	221.5	265.1	103.5	
2	1416LINE	FLAX HIL	RYTN J B	1	256	228.6	271.8	103.5	219.9	262.7	102.6	221.5	264.5	103.3	0.2
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	216.5	273.2	103.4	208.9	266.0	103.9	210.0	267.2	104.4	-1.0
3	1130LINE	FLAX HIL	RYTN J B	1	256	216.5	272.4	103.2	208.9	265.0	103.5	210.0	266.3	104.0	-0.8
3	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	216.5	268.1	101.5							
3	1430LINE	FLAX HIL	RYTN J B	1	256	216.5	267.7	101.3	208.9	260.9	101.9	210.0	262.2	102.4	-1.1
3	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				208.9	261.0	101.9	210.0	262.3	102.5	
3	SASCCR1T	FLAX HIL	RYTN J B	1	256							210.0	257.2	100.5	
3	1130+1416LNS	FLAX HIL	RYTN J B	1	256							210.0	257.0	100.4	
3	GLENBROOK8T	FLAX HIL	RYTN J B	1	256							210.0	256.6	100.3	
3	1890LINE	FLAX HIL	RYTN J B	1	256							210.0	256.4	100.2	
3	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256							210.0	256.4	100.2	
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				864.9	1533.1	106.0	845.5	1534.2	106.1	
5	387LINE	FRSTBDGE	SOUTHGTN	1	1446				864.9	1509.6	104.4	845.5	1510.7	104.5	
2	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				828.4	1505.6	104.1	808.4	1507.3	104.2	
2	387LINE	FRSTBDGE	SOUTHGTN	1	1446				828.4	1480.9	102.4	808.4	1482.6	102.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				141.2	273.7	120.1	136.9	273.9	120.1	
5	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				143.5	273.5	120.0	139.1	273.3	119.9	
2	SCOVK8TSTK	GLEN JCT	SOUTHGTN	1	228				141.2	267.9	117.5	136.9	275.6	120.9	
5	SCOVK8TSTK	GLEN JCT	SOUTHGTN	1	228				143.5	267.2	117.2	139.1	266.3	116.8	
5	387LINE	GLEN JCT	SOUTHGTN	1	228				143.5	266.1	116.7	139.1	266.0	116.6	
2	387LINE	GLEN JCT	SOUTHGTN	1	228				141.2	265.8	116.6	136.9	265.9	116.6	
5	SCOVK5TSTK	GLEN JCT	SOUTHGTN	1	228				143.5	246.8	108.2	139.1	246.6	108.2	
2	SCOVK5TSTK	GLEN JCT	SOUTHGTN	1	228				141.2	247.2	108.4	136.9	247.3	108.5	
2	SCOVK7TSTK	GLEN JCT	SOUTHGTN	1	228				141.2	236.2	103.6	136.9	236.4	103.7	
5	SCOVK7TSTK	GLEN JCT	SOUTHGTN	1	228				143.5	235.1	103.1	139.1	235.0	103.1	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.1	445.4	154.5	172.0	430.6	154.3	172.0	430.5	154.3	0.2
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	176.9	437.6	151.8	170.8	422.4	151.4	170.6	421.7	151.1	0.7
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	176.9	296.0	102.6	170.8	287.5	103.0	170.6	287.3	103.0	-0.4
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	178.1	290.7	100.8	172.0	282.3	101.2	172.0	282.3	101.2	-0.4
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279	176.9	288.5	100.0	170.8	280.2	100.4	170.6	280.0	100.4	-0.4
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	184.9	467.3	102.9	178.3	451.6	102.9	178.3	451.4	102.8	0.1
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	170.1	444.1	148.8	164.2	428.4	148.2	164.1	428.3	148.2	0.6
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	160.5	420.7	140.9	153.5	403.1	139.5	153.5	403.1	139.5	1.4
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	155.3	360.9	122.0	149.9	350.0	121.1	149.8	349.8	121.0	1.0
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	149.4	350.8	118.0	144.2	339.2	117.4	144.2	339.2	117.4	0.6
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	155.3	345.0	116.5	149.9	336.1	116.3	149.8	336.5	116.4	0.1
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	149.4	340.0	114.4	144.2	331.4	114.7	144.2	331.7	114.8	-0.4
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	155.3	316.6	106.8	149.9	308.1	106.6	149.8	308.5	106.7	0.1
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	149.4	311.5	104.7	144.2	303.4	105.0	144.2	303.7	105.1	-0.4
5	1620SLINE	HADDAM	BOKUM	1	165	102.7	179.7	109.8	114.8	203.6	123.4	113.0	200.3	121.4	-11.6
2	1620SLINE	HADDAM	BOKUM	1	165	101.1	176.9	107.9	114.9	203.7	123.4	113.1	200.4	121.5	-13.6
2	SCOVK8TSTK	HADDAM	BOKUM	1	165				114.9	175.3	106.2	113.1	179.5	108.8	
5	SCOVK8TSTK	HADDAM	BOKUM	1	165				114.8	173.1	104.9	113.0	172.6	104.6	
2	387LINE	HADDAM	BOKUM	1	165				114.9	168.5	102.1	113.1	168.6	102.2	
5	387LINE	HADDAM	BOKUM	1	165				114.8	167.8	101.7	113.0	167.8	101.7	
2	1261LINE	HADDAM	BOKUM	2	191				117.8	204.9	107.3	115.9	201.6	105.6	
5	1261LINE	HADDAM	BOKUM	2	191				117.7	204.8	107.2	115.8	201.5	105.5	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134				NC	303.4	226.4	22.5	303.3	226.3	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134				NC	302.9	226.0	22.4	302.8	225.9	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134				NC	298.8	223.0	22.5	298.8	223.0	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134				NC	297.9	222.3	22.4	297.9	222.3	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.7	147.0	111.5	22.5	149.4	111.5	22.5	149.3	111.4	0.1
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.7	110.3	22.5	149.3	111.4	22.5	149.3	111.4	-1.1
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.9	110.9	22.5	149.1	111.3	22.4	149.0	111.2	-0.3
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.8	22.4	148.8	111.1	22.4	148.8	111.1	-0.3
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	273.4	521.4	199.3	263.6	507.4	198.2	265.2	510.5	199.4	-0.1
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	263.9	510.4	193.0	253.2	493.4	192.7	254.3	495.5	193.5	-0.5
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	273.4	494.3	188.7	263.6	480.1	187.6	265.2	483.3	188.8	-0.1
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	263.9	483.1	182.5	253.2	466.3	182.1	254.3	468.3	182.9	-0.4
2	113091001DCT	NORWALK	FLAX HIL	1	256	273.4	432.6	165.7	263.6	424.3	165.8	265.2	426.7	166.7	-1.0
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	273.4	428.2	163.2	263.6	413.5	161.5	265.2	416.3	162.6	0.6
2	1880LINE	NORWALK	FLAX HIL	1	256	273.4	428.0	163.2	263.6	410.4	160.3	265.2	413.2	161.4	1.8
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	273.4	428.0	163.2	263.6	410.4	160.3	265.2	413.2	161.4	1.8
2	NORWALKST2	NORWALK	FLAX HIL	1	256	273.4	427.5	162.7	263.6	409.5	160.0	265.2	412.3	161.1	1.6
3	113091001DCT	NORWALK	FLAX HIL	1	256	263.9	427.4	162.3	253.2	418.9	163.6	254.3	420.5	164.2	-1.9
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	263.9	415.0	156.5	253.2	397.2	155.2	254.3	399.0	155.9	0.6
3	1880LINE	NORWALK	FLAX HIL	1	256	263.9	414.8	156.4	253.2	395.5	154.5	254.3	397.3	155.2	1.2
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	263.9	414.8	156.4	253.2	395.5	154.5	254.3	397.3	155.2	1.2
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	273.4	408.5	155.9	263.6	396.2	154.8	265.2	396.0	154.7	1.2
3	NORWALKST2	NORWALK	FLAX HIL	1	256	263.9	413.0	155.4	253.2	393.0	153.5	254.3	394.8	154.2	1.2
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	273.4	400.4	152.9	263.6	391.3	152.8	265.2	393.6	153.7	-0.8
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	273.4	397.3	151.9	263.6	388.5	151.8	265.2	390.8	152.7	-0.8
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	263.9	401.1	151.4	253.2	385.6	150.6	254.3	385.6	150.6	0.8
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	263.9	395.2	149.7	253.2	386.2	150.9	254.3	387.7	151.5	-1.8
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	263.9	392.5	148.7	253.2	383.6	149.9	254.3	385.2	150.5	-1.8
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	273.4	373.7	142.7	263.6	364.9	142.5	265.2	367.2	143.4	-0.7
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	263.9	369.0	139.6	253.2	360.2	140.7	254.3	361.7	141.3	-1.7
2	91001LINE	NORWALK	FLAX HIL	1	256	273.4	348.1	132.8	263.6	338.4	132.2	265.2	340.4	133.0	-0.2
3	91001LINE	NORWALK	FLAX HIL	1	256	263.9	340.7	128.8	253.2	330.5	129.1	254.3	331.8	129.6	-0.8
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	273.4	330.4	125.7	263.6	317.3	123.9	265.2	317.0	123.8	1.9
2	1130LINE	NORWALK	FLAX HIL	1	256	273.4	327.7	124.9	263.6	318.0	124.2	265.2	319.9	125.0	-0.1
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	273.4	327.6	124.7	263.6	318.0	124.2	265.2	319.9	125.0	-0.3
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				263.6	315.2	123.1	265.2	317.2	123.9	
2	1430LINE	NORWALK	FLAX HIL	1	256	273.4	322.1	122.6	263.6	312.4	122.0	265.2	314.4	122.8	-0.2
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	273.4	318.3	121.2	263.6	308.7	120.6	265.2	310.6	121.3	-0.1
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	263.9	320.2	120.9	253.2	310.1	121.1	254.3	311.4	121.6	-0.7
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	273.4	317.5	120.9	263.6	307.3	120.0	265.2	309.3	120.8	0.1
3	1130LINE	NORWALK	FLAX HIL	1	256	263.9	319.6	120.8	253.2	309.4	120.9	254.3	310.6	121.3	-0.5
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	273.4	316.7	120.6	263.6	307.2	120.0	265.2	309.2	120.8	-0.2
2	1890LINE	NORWALK	FLAX HIL	1	256	273.4	316.8	120.6	263.6	306.6	119.8	265.2	308.6	120.5	0.1
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	273.4	316.8	120.6	263.6	306.6	119.8	265.2	308.6	120.5	0.1
2	1416LINE	NORWALK	FLAX HIL	1	256	273.4	316.6	120.6	263.6	306.2	119.6	265.2	308.1	120.3	0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	PEQUON12STK	NORWALK	FLAX HIL	1	256				253.2	305.5	119.4	254.3	306.9	119.9	
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	263.9	317.0	119.4	253.2	300.4	117.3	254.3	300.3	117.3	2.1
3	1430LINE	NORWALK	FLAX HIL	1	256	263.9	314.7	118.8	253.2	304.8	119.1	254.3	306.1	119.6	-0.8
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	263.9	310.3	117.2	253.2	300.2	117.3	254.3	301.4	117.7	-0.5
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	263.9	310.4	117.2	253.2	299.9	117.1	254.3	301.2	117.6	-0.4
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	263.9	309.7	116.9	253.2	299.6	117.0	254.3	300.9	117.5	-0.6
3	1890LINE	NORWALK	FLAX HIL	1	256	263.9	309.8	116.9	253.2	299.1	116.8	254.3	300.4	117.4	-0.5
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	263.9	309.8	116.9	253.2	299.1	116.8	254.3	300.4	117.4	-0.5
3	1416LINE	NORWALK	FLAX HIL	1	256	263.9	308.6	116.6	253.2	297.8	116.3	254.3	299.1	116.8	-0.2
2	DARIEN1T	NORWALK	FLAX HIL	1	256	273.4	306.2	116.6	263.6	296.8	115.9	265.2	298.7	116.7	-0.1
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	273.4	303.1	115.4	263.6	293.6	114.7	265.2	295.5	115.4	
2	1977LINENEW	NORWALK	FLAX HIL	1	256	273.4	302.4	115.1	263.6	292.9	114.4	265.2	294.8	115.2	-0.1
2	1460-387DCT	NORWALK	FLAX HIL	1	256	273.4	300.2	114.6	263.6	274.1	107.1	265.2	274.3	107.1	7.5
2	387+AUTOS	NORWALK	FLAX HIL	1	256	273.4	299.6	114.4							
3	DARIEN1T	NORWALK	FLAX HIL	1	256	263.9	298.2	112.6	253.2	288.3	112.6	254.3	289.6	113.1	-0.5
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	273.4	294.0	111.9	263.6	284.0	110.9	265.2	285.9	111.7	0.2
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	263.9	295.0	111.4	253.2	285.1	111.4	254.3	286.3	111.8	-0.4
3	1977LINENEW	NORWALK	FLAX HIL	1	256	263.9	294.4	111.2	253.2	284.4	111.1	254.3	285.7	111.6	-0.4
2	SINGAUT	NORWALK	FLAX HIL	1	256	273.4	291.9	111.0	263.6	277.4	108.4	265.2	279.3	109.1	1.9
3	1460-387DCT	NORWALK	FLAX HIL	1	256	263.9	288.3	109.0	253.2	270.7	105.8	254.3	270.7	105.8	3.2
3	387+AUTOS	NORWALK	FLAX HIL	1	256	263.9	287.8	108.8							
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	273.4	284.5	108.2	263.6	273.5	106.8	265.2	275.1	107.5	0.7
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	263.9	286.0	107.9	253.2	275.7	107.7	254.3	276.9	108.2	-0.3
2	387LINE	NORWALK	FLAX HIL	1	256				263.6	276.1	107.8	265.2	276.3	107.9	
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	273.4	282.5	107.5	263.6	274.7	107.3	265.2	276.3	107.9	-0.4
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	273.4	282.5	107.5	263.6	274.7	107.3	265.2	276.3	107.9	-0.4
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	273.4	282.4	107.5	263.6	272.5	106.5	265.2	274.2	107.1	0.4
2	312+393LNS	NORWALK	FLAX HIL	1	256	273.4	282.3	107.4	263.6	274.6	107.3	265.2	276.1	107.9	-0.5
2	312+393REAC	NORWALK	FLAX HIL	1	256	273.4	282.3	107.4	263.6	274.6	107.3	265.2	276.1	107.9	-0.5
2	312LINE	NORWALK	FLAX HIL	1	256	273.4	282.3	107.4	263.6	274.6	107.3	265.2	276.1	107.9	-0.5
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	273.4	280.7	107.0	263.6	278.1	108.6	265.2	280.0	109.4	-2.4
2	SCOVK5TSTK	NORWALK	FLAX HIL	1	256	273.4	280.0	106.8				254.3	256.3	100.1	6.7
2	393LINE	NORWALK	FLAX HIL	1	256	273.4	280.5	106.7	263.6	272.7	106.5	265.2	274.2	107.1	-0.4
3	387LINE	NORWALK	FLAX HIL	1	256				253.2	271.8	106.2	254.3	271.8	106.2	
2	STEVENSSTK	NORWALK	FLAX HIL	1	256	273.4	280.2	106.5	263.6	269.5	105.3	265.2	271.2	105.9	0.6
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	273.4	280.1	106.5	263.6	269.4	105.2	265.2	271.1	105.9	0.6
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	273.4	280.1	106.5	263.6	269.4	105.2	265.2	271.1	105.9	0.6
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	273.4	279.6	106.4	263.6	269.5	105.3	265.2	271.1	105.9	0.5
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	273.4	279.6	106.4	263.6	269.5	105.3	265.2	271.1	105.9	0.5
2	318LINE	NORWALK	FLAX HIL	1	256	273.4	279.3	106.4	263.6	266.0	103.9	265.2	268.0	104.7	1.7
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	273.4	279.6	106.3	263.6	269.5	105.3	265.2	271.1	105.9	0.4
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	273.4	279.6	106.3	263.6	269.3	105.2	265.2	271.0	105.8	0.5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	273.4	279.6	106.3	263.6	269.3	105.2	265.2	271.0	105.8	0.5
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	273.4	279.1	106.3	263.6	265.8	103.8	265.2	267.8	104.6	1.7
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	273.4	279.4	106.2	263.6	270.2	105.6	265.2	271.8	106.2	
2	DEVAUT	NORWALK	FLAX HIL	1	256	273.4	279.4	106.2	263.6	267.3	104.4	265.2	269.1	105.1	1.1
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	273.4	278.4	106.2	263.6	265.6	103.8	265.2	267.7	104.6	1.6
2	MIXAVE1	NORWALK	FLAX HIL	1	256	273.4	278.8	106.1	263.6	269.3	105.2	265.2	270.9	105.8	0.3
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	273.4	278.8	106.1	263.6	268.9	105.0	265.2	270.6	105.7	0.4
3	SINGAUT	NORWALK	FLAX HIL	1	256	263.9	280.7	105.8	253.2	265.1	103.5	254.3	266.4	104.0	1.8
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	273.4	278.3	105.8	263.6	263.5	102.9	265.2	265.2	103.6	2.2
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	273.4	277.9	105.7	263.6	268.5	104.9	265.2	270.1	105.5	0.2
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	273.4	277.9	105.7	263.6	267.5	104.5	265.2	269.2	105.1	0.6
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	273.4	277.7	105.6	263.6	266.7	104.2	265.2	268.4	104.9	0.7
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	273.4	277.4	105.5	263.6	267.5	104.5	265.2	269.2	105.2	0.3
2	COLONY1T	NORWALK	FLAX HIL	1	256	273.4	277.4	105.5	263.6	267.5	104.5	265.2	269.2	105.1	0.4
3	SCOVK8TSTK	NORWALK	FLAX HIL	1	256				253.2	267.5	104.5	265.2	282.9	110.5	
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	273.4	277.5	105.5	263.6	267.3	104.4	265.2	269.0	105.1	0.4
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	273.4	277.3	105.5	263.6	266.7	104.2	265.2	268.4	104.8	0.7
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	273.4	277.3	105.5	263.6	266.7	104.2	265.2	268.4	104.8	0.7
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	273.4	277.1	105.4	263.6	269.0	105.1	265.2	270.5	105.7	-0.3
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	273.4	276.9	105.3	263.6	267.6	104.5	265.2	269.3	105.2	0.1
2	ESHORAU01	NORWALK	FLAX HIL	1	256				263.6	267.3	104.4	265.2	269.1	105.1	
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	273.4	276.7	105.3	263.6	266.9	104.3	265.2	268.6	104.9	0.4
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	273.4	276.8	105.3	263.6	266.3	104.0	265.2	268.0	104.7	0.6
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	273.4	276.4	105.2	263.6	266.8	104.2	265.2	268.4	104.9	0.3
2	1500LINE	NORWALK	FLAX HIL	1	256	273.4	276.6	105.2	263.6	266.7	104.2	265.2	268.4	104.9	0.3
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	273.4	276.5	105.2	263.6	266.6	104.2	265.2	268.3	104.8	0.4
2	1605LINE	NORWALK	FLAX HIL	1	256	273.4	276.6	105.2	263.6	266.7	104.2	265.2	268.4	104.8	0.4
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	273.4	276.4	105.2	263.6	266.6	104.2	265.2	268.3	104.8	0.4
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		263.6	266.9	104.2	265.2	268.5	104.9	
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	273.4	276.7	105.2	263.6	266.1	103.9	265.2	267.8	104.6	0.6
2	JUNEST1	NORWALK	FLAX HIL	1	256	273.4	276.5	105.2	263.6	266.0	103.9	265.2	267.7	104.6	0.6
2	PLUMTREEE28T	NORWALK	FLAX HIL	1	256	273.4	276.6	105.2	263.6	266.0	103.9	265.2	267.7	104.6	0.6
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	273.4	276.6	105.2	263.6	264.0	103.1	265.2	265.8	103.8	1.4
2	1505LINE	NORWALK	FLAX HIL	1	256	273.4	276.4	105.1	263.6	266.6	104.1	265.2	268.3	104.8	0.3
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	273.4	276.5	105.1	263.6	266.5	104.1	265.2	268.2	104.8	0.3
2	PLUMTREEE25T	NORWALK	FLAX HIL	1	256	273.4	276.1	105.1	263.6	265.8	103.8	265.2	267.5	104.5	0.6
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	273.4	276.1	105.0	263.6	266.2	104.0	265.2	267.9	104.7	0.3
2	1355LINE	NORWALK	FLAX HIL	1	256	273.4	275.9	105.0	263.6	266.1	103.9	265.2	267.8	104.6	0.4
2	1690LINE	NORWALK	FLAX HIL	1	256	273.4	276.1	105.0	263.6	266.1	103.9	265.2	267.8	104.6	0.4
2	1770LINE	NORWALK	FLAX HIL	1	256	273.4	276.2	105.0	263.6	265.8	103.8	265.2	267.5	104.5	0.5
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	273.4	276.2	105.0	263.6	265.7	103.8	265.2	267.4	104.5	0.5
2	SACKETST1	NORWALK	FLAX HIL	1	256	273.4	275.9	104.9	263.6	267.0	104.3	265.2	268.7	105.0	-0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	273.4	275.9	104.9	263.6	266.0	103.9	265.2	267.7	104.6	0.3
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	273.4	275.9	104.9	263.6	266.0	103.9	265.2	267.7	104.6	0.3
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	273.4	275.8	104.9	263.6	265.9	103.9	265.2	267.6	104.5	0.4
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	273.4	275.8	104.9	263.6	265.8	103.8	265.2	267.5	104.5	0.4
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	263.9	277.9	104.9	253.2	265.3	103.6	254.3	266.3	104.0	0.9
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	273.4	275.5	104.9	263.6	265.1	103.5	265.2	266.8	104.2	0.7
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	273.4	275.5	104.9							
2	362ELINE	NORWALK	FLAX HIL	1	256	273.4	275.4	104.9							
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	266.6	104.1	265.2	268.2	104.8	
2	88005ALINE	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	266.0	103.9	265.2	267.7	104.6	0.2
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	266.0	103.9	265.2	267.7	104.6	0.2
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	273.4	275.6	104.8	263.6	265.8	103.8	265.2	267.4	104.5	0.3
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	265.6	103.7	265.2	267.2	104.4	0.4
2	1780LINE	NORWALK	FLAX HIL	1	256	273.4	275.6	104.8	263.6	265.5	103.7	265.2	267.2	104.4	0.4
2	1790LINE	NORWALK	FLAX HIL	1	256	273.4	275.6	104.8	263.6	265.5	103.7	265.2	267.2	104.4	0.4
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	265.5	103.7	265.2	267.2	104.4	0.4
2	1820LINE	NORWALK	FLAX HIL	1	256	273.4	275.6	104.8	263.6	265.6	103.7	265.2	267.3	104.4	0.4
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	273.4	275.5	104.8	263.6	265.5	103.7	265.2	267.2	104.4	0.4
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	273.4	275.4	104.8	263.6	265.4	103.7	265.2	267.1	104.3	0.5
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	273.4	275.6	104.8	263.6	265.0	103.5	265.2	266.8	104.2	0.6
2	BROADWYST1	NORWALK	FLAX HIL	1	256	273.4	275.4	104.7	263.6	266.0	103.9	265.2	267.7	104.6	0.1
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	273.4	275.4	104.7	263.6	265.6	103.8	265.2	267.3	104.4	0.3
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	273.4	275.7	104.7	263.6	265.6	103.8	265.2	267.3	104.4	0.3
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	273.4	275.4	104.7	263.6	265.6	103.8	265.2	267.3	104.4	0.3
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	273.4	275.4	104.7	263.6	265.5	103.7	265.2	267.1	104.3	0.4
2	1575LINE	NORWALK	FLAX HIL	1	256	273.4	275.3	104.7	263.6	265.3	103.6	265.2	267.0	104.3	0.4
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	273.4	275.3	104.7	263.6	265.3	103.6	265.2	267.0	104.3	0.4
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	273.4	275.3	104.7	263.6	265.3	103.6	265.2	267.0	104.3	0.4
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	273.4	275.3	104.7	263.6	265.3	103.6	265.2	267.0	104.3	0.4
2	88006ALINE	NORWALK	FLAX HIL	1	256	273.4	274.9	104.6	263.6	265.6	103.8	265.2	267.3	104.4	0.2
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	273.4	274.9	104.6	263.6	265.6	103.8	265.2	267.3	104.4	0.2
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	273.4	275.0	104.6	263.6	265.5	103.7	265.2	267.2	104.4	0.2
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	273.4	275.1	104.6	263.6	265.5	103.7	265.2	267.2	104.4	0.2
2	100+400LINES	NORWALK	FLAX HIL	1	256	273.4	275.0	104.6	263.6	265.2	103.6	265.2	266.9	104.2	0.4
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	273.4	275.0	104.6	263.6	265.2	103.6	265.2	266.8	104.2	0.4
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	273.4	274.9	104.6	263.6	265.1	103.6	265.2	266.8	104.2	0.4
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	273.4	275.0	104.6	263.6	265.1	103.5	265.2	266.8	104.2	0.4
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	273.4	275.1	104.6	263.6	265.1	103.5	265.2	266.8	104.2	0.4
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	273.4	275.0	104.6	263.6	265.1	103.5	265.2	266.8	104.2	0.4
2	376LINE	NORWALK	FLAX HIL	1	256	273.4	274.9	104.6	263.6	262.5	102.5	265.2	263.9	103.1	1.5
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	273.4	274.9	104.5	263.6	266.3	104.0	265.2	267.9	104.7	-0.2
2	352LINE	NORWALK	FLAX HIL	1	256	273.4	274.1	104.5	263.6	265.5	103.7	265.2	267.3	104.4	0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	265.5	103.7	265.2	267.2	104.4	0.1
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	273.4	274.9	104.5	263.6	265.1	103.5	265.2	266.8	104.2	0.3
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	264.9	103.5	265.2	266.6	104.1	0.4
2	1235LINE	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	264.9	103.5	265.2	266.6	104.1	0.4
2	NWALLING1T	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	264.8	103.5	265.2	266.5	104.1	0.4
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	273.4	274.6	104.5	263.6	264.7	103.4	265.2	266.4	104.1	0.4
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	273.4	275.4	104.5	263.6	264.4	103.3	265.2	266.1	104.0	0.5
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	273.4	275.4	104.5	263.6	264.4	103.3	265.2	266.1	104.0	0.5
2	1610LINE	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	264.1	103.2	265.2	265.9	103.9	0.6
2	310-383DCT	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	264.3	103.2	265.2	266.0	103.9	0.6
2	1208LINE	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	263.3	102.9	265.2	265.1	103.5	1.0
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	263.3	102.9	265.2	265.1	103.5	1.0
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	273.4	274.7	104.5	263.6	263.3	102.9	265.2	265.1	103.5	1.0
2	1261-1620SDC	NORWALK	FLAX HIL	1	256	273.4	274.8	104.5	263.6	262.3	102.5	265.2	264.1	103.2	1.3
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	273.4	274.5	104.4	263.6	265.7	103.8	265.2	267.3	104.4	
2	1560LINE	NORWALK	FLAX HIL	1	256	273.4	274.5	104.4	263.6	265.2	103.6	265.2	266.8	104.2	0.2
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	273.4	274.5	104.4	263.6	264.7	103.4	265.2	266.4	104.1	0.3
2	1000LINE	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	264.6	103.4	265.2	266.3	104.0	0.4
2	694LINE	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	264.5	103.3	265.2	266.2	104.0	0.4
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	264.3	103.2	265.2	266.0	103.9	0.5
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	264.3	103.2	265.2	266.0	103.9	0.5
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	263.0	102.7	265.2	264.7	103.4	1.0
2	1342LINE	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	262.7	102.6	265.2	264.4	103.3	1.1
2	BOKUM2T	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	262.7	102.6	265.2	264.4	103.3	1.1
2	BOKUM3T	NORWALK	FLAX HIL	1	256	273.4	274.4	104.4	263.6	262.7	102.6	265.2	264.4	103.3	1.1
2	GRNDV5TSTK	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	266.0	103.9	265.2	267.7	104.6	-0.3
2	GRNDV6TSTK	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	266.0	103.9	265.2	267.7	104.6	-0.3
2	GRNDV4TSTK	NORWALK	FLAX HIL	1	256	273.4	274.1	104.3	263.6	265.4	103.7	265.2	267.1	104.3	
2	GRNDV7TSTK	NORWALK	FLAX HIL	1	256	273.4	274.1	104.3	263.6	265.4	103.7	265.2	267.1	104.3	
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	273.4	274.1	104.3	263.6	265.1	103.6	265.2	266.8	104.2	0.1
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	273.4	274.1	104.3	263.6	265.1	103.6	265.2	266.8	104.2	0.1
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	264.9	103.5	265.2	266.6	104.1	0.2
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	264.9	103.5	265.2	266.6	104.1	0.2
2	362LINE	NORWALK	FLAX HIL	1	256				263.6	264.9	103.5	265.2	266.8	104.2	
2	89006BLINE	NORWALK	FLAX HIL	1	256	273.4	274.4	104.3	263.6	264.6	103.4	265.2	266.3	104.0	0.3
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	264.5	103.3	265.2	266.2	104.0	0.3
2	1250LINE	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	264.3	103.3	265.2	266.0	103.9	0.4
2	400LINE	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	264.3	103.3	265.2	266.0	103.9	0.4
2	310LINE	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	263.9	103.1	265.2	265.6	103.8	0.5
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	263.8	103.1	265.2	265.5	103.7	0.6
2	1760LINE	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	263.7	103.0	265.2	265.4	103.7	0.6
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	273.4	274.3	104.3	263.6	263.8	103.0	265.2	265.5	103.7	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	263.6	103.0	265.2	265.3	103.6	0.7
2	329LINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.3	263.6	263.4	102.9	265.2	265.2	103.6	0.7
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	273.4	273.6	104.3	263.6	263.0	102.7	265.2	265.0	103.5	0.8
2	310-368DCT	NORWALK	FLAX HIL	1	256	273.4	274.2	104.3	263.6	262.3	102.5	265.2	263.9	103.1	1.2
2	88003ALINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.2	263.6	264.7	103.4	265.2	266.4	104.1	0.1
2	89003BLINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.2	263.6	264.7	103.4	265.2	266.4	104.1	0.1
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	273.4	273.9	104.2	263.6	264.8	103.4	265.2	266.5	104.1	0.1
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	273.4	273.9	104.2	263.6	264.8	103.4	265.2	266.5	104.1	0.1
2	1280LINE	NORWALK	FLAX HIL	1	256	273.4	274.0	104.2	263.6	264.2	103.2	265.2	265.8	103.8	0.4
2	667-690LINE	NORWALK	FLAX HIL	1	256	273.4	273.9	104.2	263.6	264.1	103.2	265.2	265.7	103.8	0.4
2	1720LINE	NORWALK	FLAX HIL	1	256	273.4	274.2	104.2	263.6	263.6	103.0	265.2	265.3	103.6	0.6
2	1887LINE	NORWALK	FLAX HIL	1	256	273.4	274.0	104.2	263.6	263.6	103.0	265.2	265.3	103.6	0.6
2	1990LINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.2	263.6	263.4	102.9	265.2	265.2	103.6	0.6
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	273.4	273.8	104.2	263.6	263.5	102.9	265.2	265.2	103.6	0.6
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	273.4	274.1	104.2	263.6	263.3	102.9	265.2	264.9	103.5	0.7
2	SGTN7TSTK	NORWALK	FLAX HIL	1	256	273.4	273.9	104.2	263.6	261.3	102.1	265.2	263.2	102.8	1.4
2	8100LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.5	103.3	265.2	266.1	104.0	0.1
2	8200LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.5	103.3	265.2	266.1	104.0	0.1
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.4	103.3	265.2	266.1	104.0	0.1
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.4	103.3	265.2	266.1	104.0	0.1
2	ESHORE12TSTK	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.5	103.3	265.2	266.1	104.0	0.1
2	GRNDAV1TSTK	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.5	103.3	265.2	266.2	104.0	0.1
2	GRNDAV3TSTK	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.6	103.3	265.2	266.2	104.0	0.1
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.1	103.2	265.2	265.7	103.8	0.3
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	1585LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	263.9	103.1	265.2	265.6	103.8	0.3
2	1607LINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	1730BLINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	264.0	103.1	265.2	265.7	103.8	0.3
2	1272LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	263.9	103.1	265.2	265.5	103.7	0.4
2	1445LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	263.9	103.1	265.2	265.6	103.7	0.4
2	1870LINE	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	263.8	103.1	265.2	265.5	103.7	0.4
2	381LINE	NORWALK	FLAX HIL	1	256	273.4	273.6	104.1	263.6	263.8	103.1	265.2	265.5	103.7	0.4
2	381LREAC	NORWALK	FLAX HIL	1	256	273.4	273.6	104.1	263.6	263.8	103.1	265.2	265.5	103.7	0.4
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	273.4	273.7	104.1	263.6	263.3	102.9	265.2	265.1	103.5	0.6
2	1508LINE	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	263.1	102.8	265.2	264.8	103.4	0.7
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	273.4	273.8	104.1	263.6	262.9	102.7	265.2	264.6	103.4	0.7
2	8400LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	264.4	103.3	265.2	266.1	103.9	0.1
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	264.1	103.2	265.2	265.7	103.8	0.2
2	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	264.0	103.1	265.2	265.7	103.8	0.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1640LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.9	103.1	265.2	265.6	103.7	0.3
2	8804ALINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.8	103.1	265.2	265.5	103.7	0.3
2	8904BLINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.8	103.1	265.2	265.5	103.7	0.3
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.8	103.1	265.2	265.5	103.7	0.3
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.9	103.1	265.2	265.6	103.7	0.3
2	1440LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.7	103.0	265.2	265.4	103.7	0.3
2	1685LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.7	103.0	265.2	265.4	103.7	0.3
2	84004LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.8	103.0	265.2	265.5	103.7	0.3
2	88003ALINE-1	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.7	103.0	265.2	265.4	103.7	0.3
2	89003BLINE-1	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.7	103.0	265.2	265.4	103.7	0.3
2	1060-1270DCT	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1060LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1070LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1090LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1165LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1191LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1200LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1270LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1337LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	104.0	263.6	263.7	103.0	265.2	265.3	103.6	0.4
2	1410LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1440-1450DCT	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1443LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1490LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1580LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1588LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1594LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1668LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1670-1771DCT	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1670LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1675LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1704LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1721LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.7	103.0	265.2	265.3	103.6	0.4
2	1740LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1753LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1756LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1759LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1765LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1769LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1771LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1779LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1785LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1788LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1792LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	1825LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1830LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1900LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	1921LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	8500LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.7	103.0	265.2	265.3	103.6	0.4
2	8700LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	9500LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	9502LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	LOBPTENGF	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	LOSSNHAV	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	LOSSNOR1	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	LOSSNOR2	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.2	103.6	0.4
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.7	103.0	265.2	265.3	103.6	0.4
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	103.0	265.2	265.3	103.6	0.4
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC		263.6	263.8	103.0	265.2	265.4	103.7	
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				263.6	263.6	103.0	265.2	265.2	103.6	
2	1100LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.6	102.9	265.2	265.2	103.6	0.4
2	1466LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1655LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1763LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1766LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1786LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1810LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.5	102.9	265.2	265.1	103.6	0.4
2	1835LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1975LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	263.5	102.9	265.2	265.1	103.6	0.4
2	689LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	693LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.5	102.9	265.2	265.2	103.6	0.4
2	1261LINE	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	263.4	102.9	265.2	265.1	103.5	0.5
2	1620SLINE	NORWALK	FLAX HIL	1	256	273.4	273.6	104.0	263.6	263.4	102.9	265.2	265.1	103.5	0.5
2	8600LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	263.3	102.9	265.2	265.0	103.5	0.5
2	FROSTBR21T	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	262.9	102.7	265.2	264.7	103.4	0.6
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	273.4	273.3	104.0	263.6	262.9	102.7	265.2	264.6	103.4	0.6
2	1630LINE	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	262.5	102.5	265.2	264.3	103.2	0.8
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	273.4	273.5	104.0	263.6	262.5	102.5	265.2	264.3	103.2	0.8
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256	273.4	273.4	104.0	263.6	262.5	102.5	265.2	264.3	103.2	0.8
2	8300LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.7	103.0	265.2	265.4	103.7	0.2
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.7	103.0	265.2	265.4	103.7	0.2
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.7	103.0	265.2	265.3	103.7	0.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	100LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1163LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.4	102.9	265.2	265.1	103.6	0.3
2	1206LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.1	103.6	0.3
2	1207LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.5	102.9	265.2	265.1	103.6	0.3
2	1310LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1394LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1450LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1460LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1537LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1572LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.1	103.6	0.3
2	1620LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.5	102.9	265.2	265.1	103.6	0.3
2	1625LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.1	103.6	0.3
2	1751LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1767LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1772LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.1	103.6	0.3
2	1775LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1800-1860LNS	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.1	103.6	0.3
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.5	102.9	265.2	265.2	103.6	0.3
2	1050LINE	NORWALK	FLAX HIL	1	256	273.4	273.3	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	1060-1165DCT	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	1550LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.1	103.5	0.4
2	1620N-1975DC	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.1	103.5	0.4
2	1752LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.3	102.9	265.2	265.0	103.5	0.4
2	1777-1779DCT	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	1777LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	1910LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.3	102.9	265.2	265.0	103.5	0.4
2	1950LINE	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.3	102.9	265.2	265.0	103.5	0.4
2	347LINE	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	347LREAC	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.4	102.9	265.2	265.0	103.5	0.4
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9	263.6	263.3	102.9	265.2	265.0	103.5	0.4
2	1080-1280DCT	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.3	102.8	265.2	265.0	103.5	0.4
2	1515LINE	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.3	102.8	265.2	265.0	103.5	0.4
2	1783LINE	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.2	102.8	265.2	264.9	103.5	0.4
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	263.2	102.8	265.2	264.9	103.5	0.4
2	1876LINE	NORWALK	FLAX HIL	1	256	273.4	273.1	103.9	263.6	262.7	102.6	265.2	264.4	103.3	0.6
2	HADDAM1T	NORWALK	FLAX HIL	1	256	273.4	273.2	103.9							
2	EDEVDEV2	NORWALK	FLAX HIL	1	256	273.4	272.6	103.8	263.6	267.1	104.3	265.2	268.8	105.0	-1.2
2	BRANFORD2T	NORWALK	FLAX HIL	1	256	273.4	273.0	103.8	263.6	263.4	102.9	265.2	265.1	103.6	0.2
2	ESHORORANGE	NORWALK	FLAX HIL	1	256				263.6	263.4	102.9	265.2	265.0	103.5	
2	HADDAMAT	NORWALK	FLAX HIL	1	256				263.6	263.4	102.9	265.2	265.1	103.5	
2	1207-1775DCT	NORWALK	FLAX HIL	1	256	273.4	272.8	103.8	263.6	263.1	102.8	265.2	264.8	103.5	0.3
2	1773LINE	NORWALK	FLAX HIL	1	256	273.4	272.8	103.8	263.6	263.0	102.8	265.2	264.9	103.5	0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	301-302LNS	NORWALK	FLAX HIL	1	256	273.4	273.1	103.8	263.6	263.2	102.8	265.2	264.9	103.5	0.3
2	383LINE	NORWALK	FLAX HIL	1	256	273.4	273.0	103.8	263.6	263.3	102.8	265.2	265.0	103.5	0.3
2	1751-1777DCT	NORWALK	FLAX HIL	1	256	273.4	272.9	103.8	263.6	263.1	102.8	265.2	264.7	103.4	0.4
2	1821LINE	NORWALK	FLAX HIL	1	256	273.4	272.8	103.8	263.6	263.0	102.7	265.2	264.7	103.4	0.4
2	1836LINE	NORWALK	FLAX HIL	1	256	273.4	272.8	103.8	263.6	263.0	102.7	265.2	264.7	103.4	0.4
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	273.4	273.0	103.8	263.6	263.0	102.7	265.2	264.7	103.4	0.4
2	89005BLINE	NORWALK	FLAX HIL	1	256	273.4	273.0	103.8	263.6	263.0	102.7	265.2	264.7	103.4	0.4
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	273.4	273.0	103.8	263.6	263.0	102.7	265.2	264.7	103.4	0.4
2	1570-1580DCT	NORWALK	FLAX HIL	1	256	273.4	272.6	103.7	263.6	263.2	102.8	265.2	264.9	103.5	0.2
2	1784LINE	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	263.2	102.8	265.2	264.9	103.5	0.2
2	1570LINE	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	263.1	102.8	265.2	264.8	103.4	0.3
2	DEVON7TSTK	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	263.1	102.8	265.2	264.8	103.4	0.3
2	1732LINE	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	262.9	102.7	265.2	264.6	103.4	0.3
2	500LINE	NORWALK	FLAX HIL	1	256	273.4	272.8	103.7	263.6	263.0	102.7	265.2	264.6	103.4	0.3
2	1726LINE	NORWALK	FLAX HIL	1	256	273.4	272.6	103.7	263.6	262.8	102.7	265.2	264.5	103.3	0.4
2	1618LINE	NORWALK	FLAX HIL	1	256	273.4	272.6	103.7	263.6	262.3	102.5	265.2	264.1	103.2	0.5
2	88005ALINE-2	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	262.4	102.5	265.2	264.1	103.2	0.5
2	89005BLINE-2	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	262.4	102.5	265.2	264.1	103.2	0.5
2	368LINE	NORWALK	FLAX HIL	1	256	273.4	272.7	103.7	263.6	262.2	102.4	265.2	263.8	103.1	0.6
2	371-383DCT	NORWALK	FLAX HIL	1	256	273.4	272.6	103.7	263.6	260.9	101.9	265.2	262.5	102.5	1.2
2	1080LINE	NORWALK	FLAX HIL	1	256	273.4	272.5	103.6	263.6	262.7	102.6	265.2	264.4	103.3	0.3
2	1080-1490DCT	NORWALK	FLAX HIL	1	256	273.4	272.4	103.6	263.6	262.7	102.6	265.2	264.3	103.2	0.4
2	329-352DCT	NORWALK	FLAX HIL	1	256	273.4	271.7	103.6	263.6	262.3	102.5	265.2	264.2	103.2	0.4
2	352+AUTO	NORWALK	FLAX HIL	1	256	273.4	271.7	103.6	263.6	262.3	102.5	265.2	264.1	103.2	0.4
2	DEVSING1	NORWALK	FLAX HIL	1	256	273.4	272.0	103.5	263.6	262.8	102.7	265.2	264.4	103.3	0.2
2	1545LINE	NORWALK	FLAX HIL	1	256	273.4	272.0	103.5	263.6	262.7	102.6	265.2	264.4	103.3	0.2
2	1238+1813LNS	NORWALK	FLAX HIL	1	256	273.4	271.9	103.5	263.6	261.7	102.2	265.2	263.4	102.9	0.6
2	WESTON1T	NORWALK	FLAX HIL	1	256	273.4	272.4	103.4	263.6	262.6	102.6	265.2	264.3	103.2	0.2
2	ONE1385	NORWALK	FLAX HIL	1	256	273.4	271.6	103.3	263.6	261.9	102.3	265.2	263.6	103.0	0.3
2	1300LINE	NORWALK	FLAX HIL	1	256	273.4	271.6	103.3	263.6	261.9	102.3	265.2	263.5	102.9	0.4
2	DEVON23TSTK	NORWALK	FLAX HIL	1	256	273.4	271.7	103.3	263.6	261.5	102.1	265.2	263.2	102.8	0.5
2	DEVON25TSTK	NORWALK	FLAX HIL	1	256	273.4	271.7	103.3	263.6	261.5	102.1	265.2	263.2	102.8	0.5
2	371LINE	NORWALK	FLAX HIL	1	256	273.4	271.7	103.3	263.6	260.3	101.7	265.2	261.9	102.3	1.0
2	371+AUTO	NORWALK	FLAX HIL	1	256	273.4	271.5	103.3	263.6	260.1	101.6	265.2	261.7	102.2	1.1
2	NORSING1	NORWALK	FLAX HIL	1	256	273.4	270.3	103.2	263.6	263.0	102.8	265.2	264.5	103.3	-0.1
2	BOKUM1T	NORWALK	FLAX HIL	1	256				263.6	262.3	102.5	265.2	264.1	103.2	
2	HADDAMBT	NORWALK	FLAX HIL	1	256				263.6	262.3	102.5	265.2	264.1	103.2	
2	SINGERSTK	NORWALK	FLAX HIL						263.6	262.4	102.5	265.2	263.8	103.1	
2	1622-1887DCT	NORWALK	FLAX HIL	1	256	273.4	271.2	103.2	263.6	261.1	102.0	265.2	262.8	102.7	0.5
2	SHEPAUG13A	NORWALK	FLAX HIL	1	256	273.4	271.2	103.2	263.6	261.1	102.0	265.2	262.8	102.7	0.5
2	1813LINE	NORWALK	FLAX HIL	1	256	273.4	271.2	103.2	263.6	261.0	101.9	265.2	262.7	102.6	0.6
3	PLUMNOR	NORWALK	FLAX HIL	1	256	263.9	273.7	103.2							

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1545+SPS	NORWALK	FLAX HIL	1	256	273.4	271.0	103.1	263.6	262.1	102.4	265.2	263.7	103.0	0.1
2	1722LINE	NORWALK	FLAX HIL	1	256	273.4	271.1	103.1	263.6	261.3	102.1	265.2	263.0	102.7	0.4
2	1637-1720DCT	NORWALK	FLAX HIL	1	256	273.4	271.7	103.1	263.6	260.1	101.6	265.2	261.8	102.3	0.8
3	1310-1763DCT	NORWALK	FLAX HIL	1	256	263.9	273.0	103.0	253.2	262.2	102.4	254.3	263.4	102.9	0.1
2	1730CLINE	NORWALK	FLAX HIL	1	256	273.4	270.8	103.0	263.6	261.8	102.3	265.2	263.4	102.9	0.1
2	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	273.4	270.8	103.0	263.6	261.8	102.3	265.2	263.4	102.9	0.1
2	1622LINE	NORWALK	FLAX HIL	1	256	273.4	270.8	103.0	263.6	261.2	102.0	265.2	262.8	102.7	0.3
2	1238LINE	NORWALK	FLAX HIL	1	256	273.4	270.7	103.0	263.6	260.5	101.8	265.2	262.2	102.4	0.6
2	SGTN1TSTK	NORWALK	FLAX HIL	1	256	273.4	270.7	103.0	263.6	260.0	101.6	265.2	261.9	102.3	0.7
2	348N+AUTO	NORWALK	FLAX HIL	1	256	273.4	270.8	103.0							
2	1637LINE	NORWALK	FLAX HIL	1	256	273.4	271.0	102.9	263.6	260.3	101.7	265.2	262.0	102.3	0.6
2	1759-353NDCT	NORWALK	FLAX HIL	1	256	273.4	270.4	102.9	263.6	259.0	101.2	265.2	260.4	101.7	1.2
2	PEQUON42TSTK	NORWALK	FLAX HIL	1	256	273.4	269.6	102.8	263.6	263.8	103.0	265.2	265.2	103.6	-0.8
2	MONTVSTBKR	NORWALK	FLAX HIL	1	256	273.4	270.1	102.7	263.6	258.5	101.0	265.2	260.0	101.6	1.1
2	364+AUTO	NORWALK	FLAX HIL	1	256	273.4	270.1	102.7	263.6	258.4	100.9	265.2	260.0	101.5	1.2
2	348NLINE	NORWALK	FLAX HIL	1	256	273.4	269.9	102.7							
3	EDEVDEV1	NORWALK	FLAX HIL	1	256	263.9	272.3	102.7							
2	DEVON26TSTK	NORWALK	FLAX HIL	1	256	273.4	269.8	102.6	263.6	260.1	101.6	265.2	261.8	102.3	0.3
2	LOSSDEV7	NORWALK	FLAX HIL	1	256	273.4	269.8	102.6	263.6	259.9	101.5	265.2	261.5	102.2	0.4
2	PLUMAUT	NORWALK	FLAX HIL	1	256	273.4	269.3	102.5	263.6	260.0	101.6	265.2	261.7	102.2	0.3
2	1470-1720DCT	NORWALK	FLAX HIL	1	256	273.4	270.3	102.5	263.6	257.2	100.5	265.2	259.0	101.2	1.3
2	NORWALKST1	NORWALK	FLAX HIL	1	256	273.4	270.3	102.5	263.6	257.2	100.5	265.2	259.0	101.2	1.3
2	DEVON3TSTK	NORWALK	FLAX HIL	1	256	273.4	269.3	102.5							
2	1545-1570DCT	NORWALK	FLAX HIL	1	256	273.4	268.4	102.4	263.6	260.4	101.7	265.2	262.0	102.3	0.1
2	DEVON6TSTK	NORWALK	FLAX HIL	1	256	273.4	268.4	102.4	263.6	260.4	101.7	265.2	262.0	102.3	0.1
2	1470LINE	NORWALK	FLAX HIL	1	256	273.4	269.6	102.4	263.6	257.6	100.6	265.2	259.4	101.3	1.1
2	1975-362WDCT	NORWALK	FLAX HIL	1	256	273.4	269.2	102.4							
2	362WLINE	NORWALK	FLAX HIL	1	256	273.4	269.2	102.4							
3	1770-1887DCT	NORWALK	FLAX HIL	1	256	263.9	271.1	102.2	253.2	259.6	101.4	254.3	260.8	101.9	0.3
3	STONYHILL1T	NORWALK	FLAX HIL	1	256	263.9	271.1	102.2	253.2	259.6	101.4	254.3	260.8	101.9	0.3
2	353NLINE	NORWALK	FLAX HIL	1	256	273.4	268.8	102.2	263.6	257.5	100.6	265.2	258.9	101.1	1.1
2	362W-376DCT	NORWALK	FLAX HIL	1	256	273.4	268.4	102.1	263.6	260.2	101.6	265.2	261.7	102.2	-0.1
2	353N+AUTO	NORWALK	FLAX HIL	1	256	273.4	268.5	102.1	263.6	257.1	100.4	265.2	258.4	101.0	1.1
2	HADNKSTBKR	NORWALK	FLAX HIL	1	256	273.4	268.4	102.1							
2	SCOVRR8TSTK	NORWALK	FLAX HIL	1	256	273.4	268.1	102.0	263.6	278.0	108.6	254.3	267.5	104.5	-2.5
2	1767-353NDCT	NORWALK	FLAX HIL	1	256	273.4	268.3	102.0	263.6	256.9	100.4	265.2	258.3	100.9	1.1
3	TRIANGLE4T	NORWALK	FLAX HIL	1	256	263.9	270.2	101.9	253.2	259.3	101.3	254.3	260.4	101.7	0.2
3	1800-1810DCT	NORWALK	FLAX HIL	1	256	263.9	270.1	101.9	253.2	259.1	101.2	254.3	260.2	101.7	0.2
3	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	263.9	270.1	101.9	253.2	259.1	101.2	254.3	260.2	101.7	0.2
3	1163-1550D-2	NORWALK	FLAX HIL	1	256	263.9	270.2	101.9	253.2	259.0	101.2	254.3	260.2	101.6	0.3
3	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	263.9	270.2	101.9	253.2	259.0	101.2	254.3	260.2	101.6	0.3
3	STEVENSNSTK	NORWALK	FLAX HIL	1	256	263.9	270.4	101.9	253.2	258.8	101.1	254.3	260.0	101.6	0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	318LINE	NORWALK	FLAX HIL	1	256	263.9	269.8	101.9				254.3	256.3	100.1	1.8
2	LOSSBPT3	NORWALK	FLAX HIL	1	256	273.4	267.3	101.8	263.6	259.4	101.3	265.2	260.9	101.9	-0.1
3	SGTN3TSTK	NORWALK	FLAX HIL	1	256	263.9	269.6	101.8				254.3	256.0	100.0	1.8
3	NMSTBKREAC	NORWALK	FLAX HIL	1	256	263.9	269.6	101.7	253.2	260.7	101.8	254.3	261.7	102.2	-0.5
3	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	263.9	269.6	101.7	253.2	260.7	101.8	254.3	261.7	102.2	-0.5
2	CARD2TSTK	NORWALK	FLAX HIL	1	256	273.4	267.5	101.7	263.6	257.6	100.6	265.2	259.1	101.2	0.5
3	8100-8200DCT	NORWALK	FLAX HIL	1	256	263.9	269.1	101.6	253.2	264.7	103.4	254.3	265.9	103.9	-2.3
3	1505-1607DCT	NORWALK	FLAX HIL	1	256	263.9	269.4	101.6	253.2	258.6	101.0	254.3	259.7	101.5	0.1
2	SCOVK7TSTK	NORWALK	FLAX HIL	1	256	273.4	266.7	101.6							
3	SGTN4TSTK	NORWALK	FLAX HIL	1	256	263.9	268.9	101.6							
3	MIXAVE1	NORWALK	FLAX HIL	1	256	263.9	268.8	101.4	253.2	258.7	101.0	254.3	259.8	101.5	-0.1
3	BATESROCK1T	NORWALK	FLAX HIL	1	256	263.9	268.8	101.4	253.2	257.6	100.6	254.3	258.8	101.1	0.3
3	1560-1570DCT	NORWALK	FLAX HIL	1	256	263.9	268.6	101.3	253.2	258.4	101.0	254.3	259.5	101.4	-0.1
2	1750LINE	NORWALK	FLAX HIL	1	256	273.4	266.4	101.3	263.6	256.7	100.3	265.2	258.4	100.9	0.4
2	310-348WDCT	NORWALK	FLAX HIL	1	256	273.4	266.2	101.2	263.6	260.5	101.8	265.2	262.3	102.5	-1.3
2	348+AUTO	NORWALK	FLAX HIL	1					263.6	260.2	101.6	265.2	262.1	102.4	
3	347LINE	NORWALK	FLAX HIL	1	256	263.9	268.3	101.2	253.2	257.5	100.6	254.3	258.6	101.0	0.2
3	347LREAC	NORWALK	FLAX HIL	1	256	263.9	268.3	101.2	253.2	257.5	100.6	254.3	258.6	101.0	0.2
2	OLDTOWNST	NORWALK	FLAX HIL	1	256	273.4	265.8	101.2	263.6	256.2	100.1	265.2	257.8	100.7	0.5
3	SCOVK5TSTK	NORWALK	FLAX HIL	1	256	263.9	268.1	101.2	253.2	256.3	100.1				
3	312+393LNS	NORWALK	FLAX HIL	1	256	263.9	268.1	101.1	253.2	259.2	101.2	254.3	260.1	101.6	-0.5
3	312+393REAC	NORWALK	FLAX HIL	1	256	263.9	268.1	101.1	253.2	259.2	101.2	254.3	260.1	101.6	-0.5
3	312LINE	NORWALK	FLAX HIL	1	256	263.9	268.1	101.1	253.2	259.2	101.2	254.3	260.1	101.6	-0.5
3	1470-1565DCT	NORWALK	FLAX HIL	1	256	263.9	268.6	101.1	253.2	257.2	100.5	254.3	258.4	100.9	0.2
3	COLONY1T	NORWALK	FLAX HIL	1	256	263.9	268.0	101.1	253.2	257.3	100.5	254.3	258.4	100.9	0.2
3	PEACEABLE1T	NORWALK	FLAX HIL	1	256	263.9	268.6	101.1	253.2	257.2	100.5	254.3	258.4	100.9	0.2
3	1800-1825DCT	NORWALK	FLAX HIL	1	256	263.9	268.1	101.1	253.2	257.1	100.4	254.3	258.2	100.9	0.2
3	GREENHLL2T	NORWALK	FLAX HIL	1	256	263.9	268.0	101.1	253.2	256.8	100.3	254.3	257.9	100.8	0.3
2	1470-1637DCT	NORWALK	FLAX HIL	1	256	273.4	266.8	101.1							
3	1570-1575DCT	NORWALK	FLAX HIL	1	256	263.9	267.7	101.0	253.2	257.0	100.4	254.3	258.1	100.8	0.2
2	1975-348DCT	NORWALK	FLAX HIL	1	256	273.4	265.4	100.9	263.6	259.9	101.5	265.2	261.7	102.2	-1.3
2	348LINE	NORWALK	FLAX HIL	1					263.6	259.9	101.5	265.2	261.7	102.2	
3	EDEVDEV2	NORWALK	FLAX HIL	1	256				253.2	259.0	101.2	254.3	260.1	101.6	
3	QUINIPACST1	NORWALK	FLAX HIL	1	256	263.9	267.6	100.9	253.2	257.0	100.4	254.3	258.1	100.8	0.1
3	TRPFALLST1	NORWALK	FLAX HIL	1	256	263.9	267.5	100.9	253.2	257.1	100.4	254.3	258.1	100.8	0.1
3	1280-1870DCT	NORWALK	FLAX HIL	1	256	263.9	267.5	100.9	253.2	256.8	100.3	254.3	257.9	100.8	0.1
3	1355-1610DCT	NORWALK	FLAX HIL	1	256	263.9	267.4	100.9				254.3	257.1	100.4	0.5
3	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	263.9	267.4	100.9				254.3	257.1	100.4	0.5
2	PLUMNOR	NORWALK	FLAX HIL	1	256	273.4	265.5	100.9							
3	1500LINE	NORWALK	FLAX HIL	1	256	263.9	267.2	100.8	253.2	256.4	100.2	254.3	257.5	100.6	0.2
3	1605LINE	NORWALK	FLAX HIL	1	256	263.9	267.1	100.8	253.2	256.4	100.2	254.3	257.5	100.6	0.2
3	1760+1876LNS	NORWALK	FLAX HIL	1	256	263.9	267.3	100.8				254.3	257.0	100.4	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	263.9	267.2	100.8				254.3	257.1	100.4	0.4
3	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	263.9	267.3	100.8				254.3	257.1	100.4	0.4
3	310-383DCT	NORWALK	FLAX HIL	1	256	263.9	267.2	100.8				254.3	256.3	100.1	0.7
3	1100-1200DCT	NORWALK	FLAX HIL	1	256	263.9	267.0	100.7	253.2	256.3	100.1	254.3	257.4	100.6	0.1
3	1505LINE	NORWALK	FLAX HIL	1	256	263.9	266.9	100.7	253.2	256.3	100.1	254.3	257.4	100.6	0.1
3	BECONFLSTK	NORWALK	FLAX HIL	1	256	263.9	266.9	100.7	253.2	256.1	100.0	254.3	257.2	100.5	0.2
3	1770LINE	NORWALK	FLAX HIL	1	256	263.9	267.1	100.7				254.3	257.0	100.4	0.3
3	PLUMTREE25T	NORWALK	FLAX HIL	1	256	263.9	267.0	100.7				254.3	257.0	100.4	0.3
3	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	263.9	267.2	100.7				254.3	257.0	100.4	0.3
3	PLUMTREE28T	NORWALK	FLAX HIL	1	256	263.9	267.2	100.7				254.3	256.9	100.3	0.4
2	353SLINE	NORWALK	FLAX HIL	1	256	273.4	264.8	100.7							
3	1394-1515DCT	NORWALK	FLAX HIL	1	256	263.9	266.8	100.6				254.3	257.1	100.4	0.2
3	1690LINE	NORWALK	FLAX HIL	1	256	263.9	266.7	100.6				254.3	256.9	100.4	0.2
3	1272-1721DCT	NORWALK	FLAX HIL	1	256	263.9	266.5	100.6				254.3	256.7	100.3	0.3
3	1780LINE	NORWALK	FLAX HIL	1	256	263.9	266.7	100.6				254.3	256.7	100.3	0.3
3	1790LINE	NORWALK	FLAX HIL	1	256	263.9	266.7	100.6				254.3	256.7	100.3	0.3
3	BUNKERH2T	NORWALK	FLAX HIL	1	256	263.9	266.5	100.6				254.3	256.7	100.3	0.3
3	DEVAUT	NORWALK	FLAX HIL	1	256	263.9	267.0	100.6							
3	SACKETST1	NORWALK	FLAX HIL	1	256	263.9	266.4	100.5	253.2	256.7	100.3	254.3	257.9	100.7	-0.2
3	1670-1830DCT	NORWALK	FLAX HIL	1	256	263.9	266.5	100.5				254.3	256.9	100.4	0.1
3	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	263.9	266.5	100.5				254.3	256.9	100.4	0.1
3	1355LINE	NORWALK	FLAX HIL	1	256	263.9	266.5	100.5				254.3	256.9	100.3	0.2
3	EMERIDEN1T	NORWALK	FLAX HIL	1	256	263.9	266.3	100.5				254.3	256.7	100.3	0.2
3	JUNEST1	NORWALK	FLAX HIL	1	256	263.9	266.5	100.5				254.3	256.5	100.2	0.3
3	1575-1990DCT	NORWALK	FLAX HIL	1	256	263.9	266.3	100.5				254.3	256.3	100.1	0.4
3	1466-362EDCT	NORWALK	FLAX HIL	1	256	263.9	266.1	100.5							
3	393LINE	NORWALK	FLAX HIL	1	256	263.9	266.1	100.4	253.2	257.1	100.4	254.3	258.1	100.8	-0.4
3	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		253.2	257.1	100.4	254.3	258.2	100.9	
3	ESHORAUTO1	NORWALK	FLAX HIL	1	256				253.2	256.3	100.1	254.3	257.5	100.6	
3	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	263.9	266.2	100.4				254.3	257.1	100.4	
3	1732-1788DCT	NORWALK	FLAX HIL	1	256	263.9	266.1	100.4				254.3	256.4	100.2	0.2
3	1820LINE	NORWALK	FLAX HIL	1	256	263.9	266.1	100.4				254.3	256.4	100.2	0.2
2	1222LINE	NORWALK	FLAX HIL	1	256	273.4	263.8	100.4							
3	362ELINE	NORWALK	FLAX HIL	1	256	263.9	266.0	100.4							
3	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	263.9	266.1	100.4							
3	88005ALINE	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.7	100.3	
3	BROADWYST1	NORWALK	FLAX HIL	1	256	263.9	265.9	100.3				254.3	256.8	100.3	
3	DEVSWS4TSTK	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.7	100.3	
3	1272+1445LNS	NORWALK	FLAX HIL	1	256	263.9	265.9	100.3				254.3	256.2	100.1	0.2
3	1443+1759LNS	NORWALK	FLAX HIL	1	256	263.9	265.9	100.3				254.3	256.3	100.1	0.2
3	1575-1585DCT	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.3	100.1	0.2
3	1810-1825DCT	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.3	100.1	0.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	BUNKERH3T	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.3	100.1	0.2
3	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.2	100.1	0.2
3	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	263.9	266.0	100.3				254.3	256.3	100.1	0.2
3	FROSTBR15T	NORWALK	FLAX HIL	1	256	263.9	265.9	100.3				254.3	256.0	100.0	0.3
3	88006ALINE	NORWALK	FLAX HIL	1	256	263.9	265.7	100.2				254.3	256.8	100.3	-0.1
3	89006BLINE-1	NORWALK	FLAX HIL	1	256	263.9	265.7	100.2				254.3	256.8	100.3	-0.1
3	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	263.9	265.6	100.2				254.3	256.8	100.3	-0.1
3	BAIRDASTK	NORWALK	FLAX HIL	1	256	263.9	265.5	100.2				254.3	256.6	100.2	
3	1580-1585DCT	NORWALK	FLAX HIL	1	256	263.9	265.8	100.2				254.3	256.2	100.1	0.1
3	SNAUGA1T	NORWALK	FLAX HIL	1	256	263.9	265.8	100.2				254.3	256.2	100.1	0.1
3	100+400LINES	NORWALK	FLAX HIL	1	256	263.9	265.6	100.2				254.3	256.0	100.0	0.2
3	1575LINE	NORWALK	FLAX HIL	1	256	263.9	265.7	100.2				254.3	256.0	100.0	0.2
3	1668-1721DCT	NORWALK	FLAX HIL	1	256	263.9	265.8	100.2				254.3	256.1	100.0	0.2
3	BUNKERH1T	NORWALK	FLAX HIL	1	256	263.9	265.7	100.2				254.3	256.0	100.0	0.2
3	1050+1766LNS	NORWALK	FLAX HIL	1	256	263.9	265.6	100.2							
3	1163+1910LNS	NORWALK	FLAX HIL	1	256	263.9	265.6	100.2							
3	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	263.9	265.6	100.2							
3	WALLING2TSTK	NORWALK	FLAX HIL	1	256	263.9	265.5	100.2							
3	DEVSWS1TSTK	NORWALK	FLAX HIL	1	256	263.9	265.5	100.1				254.3	256.3	100.1	
3	DEVSWS3TSTK	NORWALK	FLAX HIL	1	256	263.9	265.5	100.1				254.3	256.3	100.1	
3	1070+1490LNS	NORWALK	FLAX HIL	1	256	263.9	265.3	100.1							
3	1100-1300DCT	NORWALK	FLAX HIL	1	256	263.9	265.5	100.1							
3	1235LINE	NORWALK	FLAX HIL	1	256	263.9	265.3	100.1							
3	376LINE	NORWALK	FLAX HIL	1	256	263.9	265.4	100.1							
3	DEVSWS2TSTK	NORWALK	FLAX HIL	1	256	263.9	265.4	100.1							
3	352LINE	NORWALK	FLAX HIL	1	256	263.9	264.7	100.0				254.3	256.3	100.1	-0.1
3	1550+1950LNS	NORWALK	FLAX HIL	1	256	263.9	265.2	100.0							100.0
3	NWALLING1T	NORWALK	FLAX HIL	1	256	263.9	265.2	100.0							100.0
3	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	263.9	265.2	100.0							100.0
3	GRNDAV5TSTK	NORWALK	FLAX HIL	1	256							254.3	256.2	100.1	
3	GRNDAV6TSTK	NORWALK	FLAX HIL	1	256							254.3	256.2	100.1	
3	8809ALINE-2	NORWALK	FLAX HIL	1	256							254.3	256.1	100.0	-100.0
3	8909BLINE-2	NORWALK	FLAX HIL	1	256							254.3	256.1	100.0	-100.0
3	88003ALINE-2	NORWALK	FLAX HIL	1	256										
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	189.9	436.2	160.3	179.1	420.1	159.7	179.0	419.7	159.6	0.7
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	161.3	415.5	152.7	149.8	398.2	151.4	149.0	396.3	150.7	2.0
4	113091001DCT	NWLK HAR	ELYAVE	1	263	161.3	294.3	108.3	149.8	284.9	108.3	149.0	284.7	108.3	
5	113091001DCT	NWLK HAR	ELYAVE	1	263	189.9	293.3	107.9	179.1	283.9	108.0	179.0	283.9	107.9	
5	NORWALKST2	NWLK HAR	ELYAVE	1	263	189.9	282.0	103.6	179.1	267.7	101.8	179.0	267.5	101.7	1.9
5	1416-1880DCT	NWLK HAR	ELYAVE	1	263	189.9	279.9	102.8	179.1	266.5	101.3	179.0	266.4	101.3	1.5
5	1880-1977DCT	NWLK HAR	ELYAVE	1	263	189.9	279.5	102.7	179.1	266.3	101.3	179.0	266.2	101.2	1.5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	91001LINE	NWLK HAR	ELYAVE	1	263	189.9	277.4	102.1	179.1	267.5	101.7	179.0	267.5	101.7	0.4
5	GLENBROOK3T	NWLK HAR	ELYAVE	1	263	189.9	277.9	102.1	179.1	264.3	100.5	179.0	264.2	100.4	1.7
5	1880LINE	NWLK HAR	ELYAVE	1	263	189.9	277.6	102.0	179.1	264.1	100.4	179.0	263.9	100.4	1.6
5	1416-1867DCT	NWLK HAR	ELYAVE	1	263	189.9	277.0	101.8	179.1	263.7	100.3	179.0	263.6	100.2	1.6
5	1867-1977DCT	NWLK HAR	ELYAVE	1	263	189.9	277.2	101.8	179.1	264.0	100.4	179.0	263.9	100.3	1.5
5	1867LINE	NWLK HAR	ELYAVE	1	263	189.9	275.9	101.4							
5	FLAXHILL2T	NWLK HAR	ELYAVE	1	263	189.9	274.5	100.8							
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	190.9	328.4	104.4	186.8	316.9	104.3	185.9	316.9	104.3	0.1
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	176.8	328.1	104.3	171.9	317.6	104.5	171.8	317.6	104.5	-0.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.2	362.7	287.9	58.1	362.5	287.7	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	362.0	287.3	58.0	361.8	287.2	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.0	284.1	58.1	357.9	284.1	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	356.9	283.3	58.0	356.9	283.2	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.2	181.3	58.2	228.4	181.3	58.1	228.3	181.2	0.1
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.1	180.3	58.1	228.0	180.9	58.0	227.9	180.8	-0.5
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.1	58.0	227.7	180.7	58.0	227.6	180.7	-0.6
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	225.9	179.3	58.1	228.3	181.2	58.1	228.3	181.2	-1.9
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.8	260.5	188.7	79.7	260.0	188.4	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	256.1	185.6	79.6	255.6	185.2	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	243.7	176.6	79.7	243.5	176.5	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.5	239.8	173.8	79.5	239.7	173.7	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.1	105.0	79.8	144.7	104.9	79.7	144.6	104.8	0.2
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.9	104.3	79.6	144.4	104.6	79.6	144.3	104.6	-0.3
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.2	79.5	144.2	104.5	79.5	144.2	104.5	-0.3
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.5	144.7	103.7	79.7	144.6	104.8	79.7	144.6	104.8	-1.1
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.9	100.7	79.8	139.0	100.7	79.7	138.9	100.7	
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.3	79.6	138.8	100.6	79.6	138.7	100.5	-0.2
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.2	79.5	138.6	100.5	79.5	138.6	100.5	-0.3
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.7	139.1	100.8	79.7	139.0	100.8	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	225.0	135.2	84.3	224.6	135.3	84.3	224.5	135.2	
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.5	84.2	224.2	135.1	84.1	224.1	135.0	-0.5
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.4	84.1	223.9	134.9	84.1	223.9	134.9	-0.5
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.1	224.6	133.8	84.3	224.5	135.2	84.3	224.4	135.2	-1.4
2	1416-1867DCT	RYTN J A	NORWALK	1	256	255.2	483.2	184.8	245.9	470.5	183.8	247.6	473.6	185.0	-0.2
2	1867-1890DCT	RYTN J A	NORWALK	1	256	255.2	474.6	181.5	245.9	461.9	180.4	247.6	465.3	181.8	-0.3
3	1416-1867DCT	RYTN J A	NORWALK	1	256	244.9	471.5	178.4	235.2	456.4	178.3	236.3	458.4	179.1	-0.7
3	1867-1890DCT	RYTN J A	NORWALK	1	256	244.9	464.6	175.6	235.2	445.8	174.1	236.3	447.9	175.0	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1867-1977DCT	RYTN J A	NORWALK	1	256	255.2	456.2	174.3	245.9	443.3	173.2	247.6	446.4	174.4	-0.1
3	1867-1977DCT	RYTN J A	NORWALK	1	256	244.9	444.2	168.0	235.2	429.3	167.7	236.3	431.3	168.5	-0.5
2	1389LINE	RYTN J A	NORWALK	1	256	255.2	422.6	160.9	245.9	406.3	158.7	247.6	409.1	159.8	1.1
2	113091001DCT	RYTN J A	NORWALK	1	256	255.2	415.6	159.1	245.9	407.6	159.2	247.6	409.9	160.1	-1.0
3	113091001DCT	RYTN J A	NORWALK	1	256	244.9	409.8	155.6	235.2	402.0	157.0	236.3	403.5	157.6	-2.0
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	255.2	406.4	154.7	245.9	389.5	152.1	247.6	392.2	153.2	1.5
3	1389LINE	RYTN J A	NORWALK	1	256	244.9	408.5	153.9	235.2	390.7	152.6	236.3	392.5	153.3	0.6
2	1867LINE	RYTN J A	NORWALK	1	256	255.2	391.9	149.5	245.9	375.1	146.5	247.6	377.9	147.6	1.9
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	255.2	392.0	149.5	245.9	375.1	146.5	247.6	377.9	147.6	1.9
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	244.9	392.7	147.9	235.2	374.3	146.2	236.3	371.1	146.9	1.0
2	1130-1430DCT	RYTN J A	NORWALK	1	256	255.2	383.1	146.3	245.9	374.4	146.3	247.6	376.8	147.2	-0.9
2	1416-1890DCT	RYTN J A	NORWALK	1	256	255.2	380.5	145.4	245.9	372.1	145.3	247.6	374.4	146.3	-0.9
3	1130-1430DCT	RYTN J A	NORWALK	1	256	244.9	377.4	142.9	235.2	369.2	144.2	236.3	370.7	144.8	-1.9
3	1867LINE	RYTN J A	NORWALK	1	256	244.9	377.7	142.6	235.2	359.8	140.6	236.3	361.6	141.3	1.3
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	244.9	377.7	142.6	235.2	359.8	140.6	236.3	361.6	141.3	1.3
3	1416-1890DCT	RYTN J A	NORWALK	1	256	244.9	375.2	142.2	235.2	367.0	143.4	236.3	368.5	144.0	-1.8
2	1890-1977DCT	RYTN J A	NORWALK	1	256	255.2	356.6	136.2	245.9	348.2	136.0	247.6	350.5	136.9	-0.7
3	1890-1977DCT	RYTN J A	NORWALK	1	256	244.9	351.3	133.0	235.2	343.3	134.1	236.3	344.8	134.7	-1.7
2	91001LINE	RYTN J A	NORWALK	1	256	255.2	330.1	125.9	245.9	320.9	125.4	247.6	322.9	126.1	-0.2
3	91001LINE	RYTN J A	NORWALK	1	256	244.9	322.1	121.8	235.2	312.7	122.1	236.3	314.0	122.6	-0.8
2	1130LINE	RYTN J A	NORWALK	1	256	255.2	310.2	118.2	245.9	301.0	117.6	247.6	302.8	118.3	-0.1
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	255.2	309.6	117.8	245.9	300.4	117.3	247.6	302.3	118.1	-0.3
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				245.9	298.1	116.4	247.6	300.0	117.2	
2	1430LINE	RYTN J A	NORWALK	1	256	255.2	304.1	115.8	245.9	295.0	115.2	247.6	297.0	116.0	-0.2
2	1130+1416LNS	RYTN J A	NORWALK	1	256	255.2	300.6	114.5	245.9	291.6	113.9	247.6	293.4	114.6	-0.1
2	SASCOCR1T	RYTN J A	NORWALK	1	256	255.2	299.7	114.1	245.9	290.0	113.3	247.6	292.0	114.1	
3	1130LINE	RYTN J A	NORWALK	1	256	244.9	301.5	113.9	235.2	292.1	114.1	236.3	293.3	114.6	-0.7
2	1890LINE	RYTN J A	NORWALK	1	256	255.2	299.0	113.9	245.9	289.3	113.0	247.6	291.3	113.8	0.1
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	255.2	299.0	113.9	245.9	289.3	113.0	247.6	291.3	113.8	0.1
2	1416LINE	RYTN J A	NORWALK	1	256	255.2	299.0	113.9	245.9	289.1	112.9	247.6	290.9	113.6	0.3
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	244.9	301.4	113.8	235.2	292.3	114.2	236.3	293.5	114.7	-0.9
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	255.2	298.9	113.8	245.9	289.8	113.2	247.6	291.8	114.0	-0.2
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				235.2	288.0	112.5	236.3	289.3	113.0	
3	1430LINE	RYTN J A	NORWALK	1	256	244.9	295.9	111.7	235.2	287.1	112.1	236.3	288.4	112.6	-0.9
3	1130+1416LNS	RYTN J A	NORWALK	1	256	244.9	292.0	110.3	235.2	282.7	110.4	236.3	283.9	110.9	-0.6
3	SASCOCR1T	RYTN J A	NORWALK	1	256	244.9	292.0	110.2	235.2	282.3	110.3	236.3	283.6	110.8	-0.6
3	1890LINE	RYTN J A	NORWALK	1	256	244.9	291.3	110.0	235.2	281.6	110.0	236.3	282.9	110.5	-0.5
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	244.9	291.3	110.0	235.2	281.6	110.0	236.3	282.9	110.5	-0.5
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	244.9	291.2	109.9	235.2	281.9	110.1	236.3	283.2	110.6	-0.7
2	DARIEN1T	RYTN J A	NORWALK	1	256	255.2	288.4	109.8	245.9	279.4	109.2	247.6	281.3	109.9	-0.1
3	1416LINE	RYTN J A	NORWALK	1	256	244.9	290.3	109.7	235.2	280.4	109.5	236.3	281.7	110.0	-0.3
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	255.2	285.3	108.6	245.9	276.3	107.9	247.6	278.1	108.6	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1977LINENEW	RYTN J A	NORWALK	1	256	255.2	284.6	108.3	245.9	275.6	107.6	247.6	277.4	108.4	-0.1
2	1460-387DCT	RYTN J A	NORWALK	1	256	255.2	282.5	107.8	245.9	258.3	100.9	247.6	258.6	101.0	6.8
2	387+AUTOS	RYTN J A	NORWALK	1	256	255.2	281.8	107.6							
3	DARIEN1T	RYTN J A	NORWALK	1	256	244.9	279.7	105.6	235.2	270.7	105.7	236.3	271.9	106.2	-0.6
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	255.2	276.0	105.0	245.9	266.6	104.1	247.6	268.4	104.8	0.2
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	244.9	276.5	104.4	235.2	267.4	104.5	236.3	268.7	105.0	-0.6
3	1977LINENEW	RYTN J A	NORWALK	1	256	244.9	275.9	104.2	235.2	266.8	104.2	236.3	268.0	104.7	-0.5
2	SCOV RK8TSTK	RYTN J A	NORWALK	1	256				245.9	263.6	103.0	247.6	268.5	104.9	
2	387LINE	RYTN J A	NORWALK	1	256				245.9	260.4	101.7	247.6	260.6	101.8	
2	SINGAUT	RYTN J A	NORWALK	1	256	255.2	273.8	104.1	245.9	259.8	101.5	247.6	261.6	102.2	1.9
3	1460-387DCT	RYTN J A	NORWALK	1	256	244.9	269.7	101.9							
3	387+AUTOS	RYTN J A	NORWALK	1	256	244.9	269.1	101.7							
2	DEVON24TSTK	RYTN J A	NORWALK	1	256	255.2	266.4	101.3				247.6	257.6	100.6	0.7
3	SOUTHEND5T	RYTN J A	NORWALK	1	256	244.9	267.3	100.9	235.2	257.9	100.8	236.3	259.1	101.2	-0.3
2	NMSTBKREAC	RYTN J A	NORWALK	1	256	255.2	264.4	100.6	245.9	257.1	100.4	247.6	258.6	101.0	-0.4
2	NOMNTSTBKR	RYTN J A	NORWALK	1	256	255.2	264.4	100.6	245.9	257.1	100.4	247.6	258.6	101.0	-0.4
2	1310-1763DCT	RYTN J A	NORWALK	1	256	255.2	264.3	100.6				247.6	256.6	100.2	0.4
2	312+393LNS	RYTN J A	NORWALK	1	256	255.2	264.2	100.5	245.9	257.0	100.4	247.6	258.5	101.0	-0.5
2	312+393REAC	RYTN J A	NORWALK	1	256	255.2	264.2	100.5	245.9	257.0	100.4	247.6	258.5	101.0	-0.5
2	312LINE	RYTN J A	NORWALK	1	256	255.2	264.2	100.5	245.9	257.0	100.4	247.6	258.5	101.0	-0.5
2	8100-8200DCT	RYTN J A	NORWALK	1	256	255.2	262.8	100.1	245.9	260.6	101.8	247.6	262.5	102.5	-2.4
2	393LINE	RYTN J A	NORWALK	1	256							247.6	256.6	100.2	
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	177.5	408.5	143.5	173.6	395.2	144.2	172.6	392.8	143.4	0.1
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	163.6	406.6	143.0	158.3	394.5	144.0	158.3	394.1	143.8	-0.8
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1455.1	1996.4	124.5	1503.7	2043.9	106.9	
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1425.0	1983.9	123.7	1471.3	2029.9	106.2	
2	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1455.1	1890.6	117.9	1503.7	1939.9	101.5	
2	318LINE	SCOV L RK	E.SHORE	1	1604				1455.1	1883.9	117.4	1503.7	1933.3	101.1	
5	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1425.0	1869.6	116.6	1471.3	1918.4	100.3	
5	318LINE	SCOV L RK	E.SHORE	1	1604				1425.0	1862.5	116.1				
2	1618-321DCT	SCOV L RK	E.SHORE	1	1604				1455.1	1823.7	113.7				
2	1887-321DCT	SCOV L RK	E.SHORE	1	1604				1455.1	1810.5	112.9				
2	321LINE	SCOV L RK	E.SHORE	1	1604				1455.1	1792.0	111.7				
2	1770-321DCT	SCOV L RK	E.SHORE	1	1604				1455.1	1785.1	111.3				
2	SGTN5TSTK	SCOV L RK	E.SHORE	1	1604				1455.1	1775.5	110.7				
2	LONGMT5TSTK	SCOV L RK	E.SHORE	1	1604				1455.1	1763.5	109.9				
5	SGTN5TSTK	SCOV L RK	E.SHORE	1	1604				1425.0	1758.0	109.6				
2	329LINE	SCOV L RK	E.SHORE	1	1604				1455.1	1726.9	107.7				
5	329LINE	SCOV L RK	E.SHORE	1	1604				1425.0	1707.6	106.5				
2	352+AUTO	SCOV L RK	E.SHORE	1	1604				1455.1	1701.6	106.1				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post- load	% of Rating	Pre-load	Post- load	% of Rating	Pre-load	Post- load	% of Rating	
2	329-352DCT	SCOVLRK	E.SHORE	1	1604				1455.1	1702.1	106.1				
5	1618-321DCT	SCOVLRK	E.SHORE	1	1604				1425.0	1701.6	106.1				
2	SGTN7TSTK	SCOVLRK	E.SHORE	1	1604				1455.1	1682.4	104.9				
5	352+AUTO	SCOVLRK	E.SHORE	1	1604				1425.0	1689.2	105.3				
5	329-352DCT	SCOVLRK	E.SHORE	1	1604				1425.0	1689.3	105.3				
5	1887-321DCT	SCOVLRK	E.SHORE	1	1604				1425.0	1686.7	105.2				
2	1565-PLNRDCT	SCOVLRK	E.SHORE	1	1604				1455.1	1673.7	104.3				
2	362LINE	SCOVLRK	E.SHORE	1	1604				1455.1	1674.3	104.4				
5	321LINE	SCOVLRK	E.SHORE	1	1604				1425.0	1675.6	104.5				
5	LONGMT5TSTK	SCOVLRK	E.SHORE	1	1604				1425.0	1672.4	104.3				
5	1770-321DCT	SCOVLRK	E.SHORE	1	1604				1425.0	1661.7	103.6				
2	318-362STKBR	SCOVLRK	E.SHORE	1	1604				1455.1	1655.9	103.2				
5	SGTN7TSTK	SCOVLRK	E.SHORE	1	1604				1425.0	1656.8	103.3				
5	362LINE	SCOVLRK	E.SHORE	1	1604				1425.0	1653.2	103.1				
5	318-362STKBR	SCOVLRK	E.SHORE	1	1604				1425.0	1635.2	101.9				
2	SGTN1TSTK	SCOVLRK	E.SHORE	1	1604				1455.1	1622.6	101.2				
2	310-348DCT	SCOVLRK	E.SHORE	1	1604				1455.1	1617.6	100.9				
2	348+AUTO	SCOVLRK	E.SHORE	1	1604				1455.1	1611.6	100.5				
2	PLUMNOR	SCOVLRK	E.SHORE	1	1604				1455.1	1606.2	100.1				
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				166.9	283.2	111.9	164.6	279.1	110.3	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				165.5	282.8	111.8	163.4	278.8	110.2	
3	NORSING1	SINGNOR2	NORSING2	1	794	484.0	865.0	108.6							
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.2	365.6	123.2	112.6	356.0	123.2	112.6	356.0	123.2	
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.4	365.6	123.2	112.9	356.0	123.2	112.9	356.0	123.2	
4	1440-1450DCT	SO.END	GLNBRK J	1	289	112.9	365.6	123.2	109.5	356.0	123.2	109.5	356.0	123.2	
5	1440-1450DCT	SO.END	GLNBRK J	1	289	112.1	365.6	123.2	108.7	356.0	123.2	108.7	356.0	123.2	
5	1460-387DCT	SOUTHGTN	MERID362	1	1912				1215.0	2017.5	105.5	1189.5	2017.8	105.5	
5	387LINE	SOUTHGTN	MERID362	1	1912				1215.0	2012.9	105.3	1189.5	2013.2	105.3	
2	1460-387DCT	SOUTHGTN	MERID362	1	1912				1186.8	2000.2	104.6	1160.9	2001.5	104.7	
2	387LINE	SOUTHGTN	MERID362	1	1912				1186.8	1995.5	104.4	1160.9	1996.9	104.4	
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	264.7	610.0	104.3	286.9	742.0	126.8	284.8	730.3	124.8	-20.5
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	264.3	599.5	102.5	287.4	730.1	124.8	285.3	719.0	122.9	-20.4
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				272.9	678.0	115.9	271.3	669.3	114.4	
4	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				262.0	653.6	111.7	260.8	646.2	110.5	
2	SCOVLRK8TSTK	SOUTHGTN	WLNGF PF	1	330				179.3	337.0	102.1	173.8	345.0	104.5	
2	387LINE	SOUTHGTN	WLNGF PF	1	330				179.3	336.1	101.9	173.8	336.4	101.9	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL			East Shore Alternative (PowerGEM) Cases 6B-9B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 6C-9C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	387LINE	SOUTHGTN	WLNGF PF	1	330				179.7	334.0	101.2	174.1	333.8	101.2	
5	SCOVK8TSTK	SOUTHGTN	WLNGF PF	1	330				179.7	334.0	101.2	174.1	333.0	100.9	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	69.9	298.4	124.8	69.9	298.4	124.8	
5	SOUTHEND6T	WATERSDE	COS COB	1	239	72.0	299.0	124.8	70.0	298.4	124.8	70.0	298.4	124.8	
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.7	102.5	132.4	360.7	102.5	
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.7	102.5	132.4	360.7	102.5	
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	132.9	360.7	102.5	132.9	360.7	102.5	
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.3	367.3	102.5	133.0	360.7	102.5	133.0	360.7	102.5	
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	195.9	295.3	119.6							
3	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	195.9	282.9	114.6							
3	SCOVK5TSTK	WLNGF PF	WALLFRDJ	1	239	195.9	291.1	117.8							
4	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	194.8	277.9	112.3							
4	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	194.8	269.1	108.8							
4	SCOVK5TSTK	WLNGF PF	WALLFRDJ	1	239	194.8	273.7	110.6							

Appendix B2
Voltage Results
New Haven Harbor Off, NE-NY=0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

Kleen Energy Dispatched in Place of New Haven Harbor

Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 6, 7, 8 & 9 (PowerGEM)

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL		East Shore Alternative (PowerGEM) Cases 6B-9B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	ALLINGSA	115					1.021	0.879
2	SCOVK8TSTK	ALLINGSB	115					1.021	0.879
2	1545-1570DCT	ANSONIA	115	1.005	0.890				
2	DEVON6TSTK	ANSONIA	115	1.005	0.890				
2	SCOVK8TSTK	ANSONIA	115					1.003	0.870
2	SCOVK8TSTK	BALDWINA	115					1.008	0.887
5	BUNKERH2T	BALDWINB	115			1.003	0.890	1.004	0.891
2	SCOVK8TSTK	BALDWINB	115					1.006	0.888
3	1272-1721DCT	BALDWINB	115	1.011	0.885	1.008	0.884	1.008	0.884
4	1272-1721DCT	BALDWINB	115	1.010	0.884	1.006	0.884	1.006	0.884
2	1272-1721DCT	BALDWINB	115	1.008	0.880	1.005	0.871	1.006	0.871
5	1272-1721DCT	BALDWINB	115	1.008	0.871	1.003	0.856	1.004	0.857
2	1272-1721DCT	BCNFL PF	115			0.997	0.899		
2	SCOVK8TSTK	BCNFL PF	115			0.997	0.899	0.997	0.870
5	1272-1721DCT	BCNFL PF	115			0.993	0.885	0.994	0.887
5	1261-1620DCT	BOKUM	115			1.001	0.898	1.001	0.898
5	BOKUM1T	BOKUM	115			1.001	0.898	1.001	0.898
5	HADDAMBT	BOKUM	115			1.001	0.898	1.001	0.898
2	SCOVK8TSTK	BOKUM	115					1.002	0.895
2	SCOVK8TSTK	BRANF RR	115					1.021	0.878

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL		East Shore Alternative (PowerGEM) Cases 6B-9B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
4	BRANFORD4T	BRANFORD	115	1.032	1.053				
3	BRANFORD4T	BRANFORD	115	1.030	1.053				
2	SCOVK8TSTK	BRANFORD	115			1.014	0.900	1.015	0.866
2	SCOVK8TSTK	BROADWAY	115					1.022	0.878
5	BUNKERH2T	BUNKER H	115			1.014	0.892	1.014	0.893
3	1272-1721DCT	BUNKER H	115	1.021	0.885	1.015	0.884	1.018	0.884
4	1272-1721DCT	BUNKER H	115	1.020	0.885	1.017	0.884	1.015	0.884
2	1272-1721DCT	BUNKER H	115	1.017	0.881	1.015	0.871	1.015	0.872
5	1272-1721DCT	BUNKER H	115	1.018	0.871	1.014	0.856	1.014	0.857
5	PEQUON42TSTK	CONGRESS	115			1.024	0.882	1.024	0.879
2	SCOVK8TSTK	DEVON	345			1.013	0.936	1.013	0.908
5	SCOVK8TSTK	E.SHORE	345			1.009	0.949	1.010	0.898
2	SCOVK8TSTK	E.SHORE	345			1.009	0.928		
2	SCOVK8TSTK	E.SHORE	115					1.024	0.886
4	GRNDAV6TSTK	ELMWST A	115	1.031	0.889				
3	GRNDAV6TSTK	ELMWST A	115	1.030	0.886				
4	GRNDAV7TSTK	ELMWST A	115	1.031	0.886				
4	WRIVER1TSTK	ELMWST A	115	1.031	0.885				
3	GRNDAV7TSTK	ELMWST A	115	1.030	0.883				
3	WRIVER1TSTK	ELMWST A	115	1.030	0.881				
2	GRNDAV6TSTK	ELMWST A	115	1.025	0.872	1.020	0.879	1.021	0.881
2	SCOVK8TSTK	ELMWST A	115					1.021	0.878
2	GRNDAV7TSTK	ELMWST A	115	1.025	0.868	1.020	0.875	1.021	0.877
2	WRIVER1TSTK	ELMWST A	115	1.025	0.867	1.020	0.876	1.021	0.878
5	GRNDAV6TSTK	ELMWST A	115	1.022	0.855	1.015	0.866	1.016	0.876
5	GRNDAV7TSTK	ELMWST A	115	1.022	0.844	1.015	0.869	1.016	0.871
5	WRIVER1TSTK	ELMWST A	115	1.022	0.844	1.015	0.869	1.016	0.871
4	GRNDAV5TSTK	ELMWST B	115	1.031	0.887				
4	GRNDAV4TSTK	ELMWST B	115	1.031	0.883				
4	WRIVER2TSTK	ELMWST B	115	1.031	0.882				

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL		East Shore Alternative (PowerGEM) Cases 6B-9B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
3	GRNDV5TSTK	ELMWST B	115	1.030	0.879				
3	GRNDV4TSTK	ELMWST B	115	1.030	0.875	1.029	0.899	1.029	0.900
3	WRIVER2TSTK	ELMWST B	115	1.030	0.873	1.029	0.899	1.029	0.900
2	GRNDV5TSTK	ELMWST B	115	1.025	0.869	1.020	0.876	1.021	0.878
2	SCOVK8TSTK	ELMWST B	115					1.021	0.878
2	GRNDV4TSTK	ELMWST B	115	1.025	0.865	1.020	0.873	1.021	0.875
2	WRIVER2TSTK	ELMWST B	115	1.025	0.864	1.020	0.873	1.021	0.876
5	GRNDV5TSTK	ELMWST B	115	1.022	0.846	1.015	0.864	1.016	0.874
5	GRNDV4TSTK	ELMWST B	115	1.022	0.840	1.015	0.867	1.016	0.869
5	WRIVER2TSTK	ELMWST B	115	1.022	0.839	1.015	0.867	1.016	0.869
2	SCOVK8TSTK	ENG STA	115					1.023	0.880
3	1272-1721DCT	FREIGHT	115	1.022	0.884	1.019	0.882	1.019	0.883
4	1272-1721DCT	FREIGHT	115	1.021	0.883	1.017	0.883	1.017	0.883
2	1272-1721DCT	FREIGHT	115	1.019	0.879	1.016	0.870	1.017	0.870
5	1272-1721DCT	FREIGHT	115	1.019	0.870	1.016	0.854	1.016	0.856
2	SCOVK8TSTK	FRSTBDGE	345			1.020	0.948	1.021	0.932
2	SCOVK8TSTK	GLEN JCT	115			1.010	0.889	1.011	0.852
2	SCOVK8TSTK	GRAND AV	115					1.023	0.880
5	SCOVK8TSTK	GREEN HL	115			0.992	0.897	0.993	0.897
2	SCOVK8TSTK	GREEN HL	115			0.993	0.881	0.994	0.853
2	SCOVK8TSTK	IND.WELL	115					1.003	0.869
4	1545-1570DCT	IND.WELL	115	1.008	0.899				
4	DEVON6TSTK	IND.WELL	115	1.008	0.899				
5	1545-1570DCT	IND.WELL	115	1.005	0.897				
5	DEVON6TSTK	IND.WELL	115	1.005	0.897				
2	1545-1570DCT	IND.WELL	115	1.005	0.879				
2	DEVON6TSTK	IND.WELL	115	1.005	0.879				
2	SCOVK8TSTK	JUNE ST	115			1.011	0.894	1.012	0.857
2	SCOVK8TSTK	LONG MTN	345			1.007	0.944	1.007	0.928

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL		East Shore Alternative (PowerGEM) Cases 6B-9B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	MILL RVR	115					1.023	0.879
2	SCOVK8TSTK	MILVON A	115					1.023	0.895
2	SCOVK8TSTK	MILVON B	115					1.023	0.895
2	SCOVK8TSTK	MIX AVE	115			1.010	0.885	1.011	0.845
2	SCOVK8TSTK	NEWTOWN	115					1.010	0.898
2	SCOVK8TSTK	NO.HAVEN	115					1.023	0.875
2	SCOVK8TSTK	NORWALK	345			1.009	0.937	1.009	0.911
2	SCOVK8TSTK	ORANGE	345			1.009	0.929	1.010	0.899
2	SCOVK8TSTK	PLUMTREE	345			1.003	0.932	1.003	0.910
2	SCOVK8TSTK	PLUMUG	345					1.004	0.910
2	SCOVK8TSTK	QUINNIP	115					1.021	0.872
2	SCOVK8TSTK	SACKETT	115					1.024	0.870
2	SCOVK8TSTK	SACKPHS	115			1.012	0.886	1.013	0.847
2	SCOVK8TSTK	SINGER	345			1.012	0.937	1.012	0.909
2	SCOVK8TSTK	SNDYHK	115					1.009	0.893
2	SCOVK8TSTK	SO.NAUG	115					1.008	0.890
5	1272-1721DCT	SO.NAUG	115			1.004	0.886	1.004	0.888
2	SCOVK8TSTK	SOUTHGTN	345					1.026	0.950
2	SCOVK8TSTK	STEVENS	115					1.010	0.889

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) phase2-alt2-091503-xKL		East Shore Alternative (PowerGEM) Cases 6B-9B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 6C-9C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	TRAP FLS	115					1.010	0.884
2	SCOVK8TSTK	WATER ST	115					1.022	0.879
2	SCOVK8TSTK	WDMONT A	115					1.021	0.883
2	SCOVK8TSTK	WDMONT B	115					1.021	0.883
2	SCOVK8TSTK	WEST RIV	115					1.022	0.879
2	SCOVK8TSTK	WLNGF PF	115					1.021	0.879

Appendix C1
Thermal Results
New Haven Harbor On, NE-NY=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Worst Case Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NE to NY Transfer = 700 MW

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.1	132.4	130.8	17.3	147.9	132.1	-1.3
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	291.5	449.4	100.4	285.0	443.2	100.9	-0.5
2	DEVSING1	DEVSING2	SINGDEV2	1	794	457.1	868.3	107.9				
4	1545LINE	DRBY J B	IND.WELL	1	150	77.7	151.2	101.0				
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	49.5	114.6	101.2				
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	218.3	462.5	176.6	213.2	455.0	177.7	-1.1
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				932.6	1507.0	104.2	
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				120.6	233.6	102.5	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.3	441.2	153.1	171.3	427.4	153.2	-0.1
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	180.5	456.6	100.5	175.2	443.7	101.1	-0.6
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	165.9	433.9	145.4	161.1	421.3	145.8	-0.4
5	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	124.9	294.3	110.9	117.1	265.1	102.8	8.1
5	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	124.9	294.3	110.9	117.1	265.1	102.8	8.1
2	1620SLINE	HADDAM	BOKUM	1	165				105.4	186.6	113.1	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	298.9	223.0	
3	NORSING1	NORSING2	SINGNOR2	1	794	529.2	958.0	120.0	454.6	808.6	101.8	18.2
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	263.2	508.3	193.9	257.3	499.5	195.1	-1.2
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	176.5	425.0	156.1	170.2	411.4	156.4	-0.3
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	197.1	328.5	104.4	190.3	317.0	104.3	0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.0	284.1	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	244.2	177.0	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	134.9	84.2	224.3	135.1	-0.2
2	1416-1867DCT	RYTN J A	NORWALK	1	256	245.0	470.1	179.5	239.4	462.5	180.7	-1.2
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	183.6	409.7	143.9	177.0	394.6	144.0	-0.1
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1306.8	1850.4	115.4	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				157.6	267.4	105.7	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.5	365.6	123.2	112.8	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	266.9	637.2	108.9	286.3	759.9	129.9	-21.0
4	DEVON2TSTK	TRMB J A	PEQUONIC	1					59.3	236.3	102.3	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	55.7	281.9	100.5				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.8	102.5	0.0

**Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level
Thermal Overload Summary**

**Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NE to NY Transfer = 700 MW**

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.1	132.4	130.8	17.3	147.9	132.1	-1.3
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.3	131.9	129.3	19.4	145.5	129.9	-0.6
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	21.6	130.5	127.5	13.1	142.9	127.6	-0.1
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	37.2	129.6	126.6	29.9	141.7	126.5	0.1
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	10.1	111.0	106.8	17.3	121.5	108.5	-1.7
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	10.3	110.4	105.7	19.4	117.7	105.1	0.6
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	21.6	109.2	104.2	13.1	116.7	104.2	0.0
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	37.2	108.2	103.3	29.9	115.4	103.1	0.2
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	291.5	449.4	100.4	285.0	443.2	100.9	-0.5
2	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	283.3	447.6	100.0	275.1	440.8	100.4	-0.4
2	DEVSING1	DEVSING2	SINGDEV2	1	794	457.1	868.3	107.9				
4	1545LINE	DRBY J B	IND.WELL	1	150	77.7	151.2	101.0				
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	49.5	114.6	101.2				
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	218.3	462.5	176.6	213.2	455.0	177.7	-1.1
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	206.9	449.0	170.6	203.0	441.5	172.4	-1.8
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	218.3	435.6	166.2	213.2	427.8	167.1	-0.9
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	206.9	422.0	160.1	203.0	414.4	161.9	-1.8
2	113091001DCT	FLAX HIL	RYTN J B	1	256	218.3	385.1	147.1	213.2	378.1	147.7	-0.6
3	113091001DCT	FLAX HIL	RYTN J B	1	256	206.9	378.0	143.8	203.0	373.2	145.8	-2.0
2	1880LINE	FLAX HIL	RYTN J B	1	256	218.3	366.5	139.5	213.2	357.5	139.6	-0.1
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	218.3	366.7	139.5	213.2	359.3	140.3	-0.8
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	218.3	366.4	139.5	213.2	357.5	139.6	-0.1
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	218.3	363.4	138.2	213.2	354.8	138.6	-0.4
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	218.3	352.9	134.5	213.2	345.5	135.0	-0.5
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	218.3	351.7	134.4	213.2	343.5	134.2	0.2
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	218.3	349.8	133.4	213.2	342.8	133.9	-0.5
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	206.9	350.9	132.8	203.0	343.2	134.0	-1.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1880LINE	FLAX HIL	RYTN J B	1	256	206.9	350.7	132.7	203.0	341.9	133.5	-0.8
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	206.9	350.7	132.7	203.0	341.9	133.5	-0.8
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	206.9	345.9	131.2	203.0	341.0	133.2	-2.0
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	206.9	346.2	130.9	203.0	337.4	131.8	-0.9
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	206.9	343.2	130.3	203.0	338.3	132.2	-1.9
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	206.9	342.0	129.8	203.0	333.8	130.4	-0.6
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	218.3	326.2	124.3	213.2	319.1	124.6	-0.3
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	206.9	319.6	121.2	203.0	314.8	123.0	-1.8
2	91001LINE	FLAX HIL	RYTN J B	1	256	218.3	296.3	112.8	213.2	290.0	113.3	-0.5
3	91001LINE	FLAX HIL	RYTN J B	1	256	206.9	287.0	108.8	203.0	282.2	110.2	-1.4
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	218.3	275.9	104.8	213.2	269.8	105.4	-0.6
2	1130LINE	FLAX HIL	RYTN J B	1	256	218.3	274.8	104.6	213.2	269.0	105.1	-0.5
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				213.2	265.1	103.5	
2	1430LINE	FLAX HIL	RYTN J B	1	256	218.3	270.5	102.7	213.2	264.7	103.4	-0.7
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	218.3	267.1	101.6	213.2	260.3	101.7	-0.1
2	SASCOCR1T	FLAX HIL	RYTN J B	1	256	218.3	265.9	101.1	213.2	259.6	101.4	-0.3
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	218.3	265.4	100.9	213.2	259.8	101.5	-0.6
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	206.9	266.7	100.9	203.0	262.3	102.5	-1.6
2	1890LINE	FLAX HIL	RYTN J B	1	256	218.3	265.2	100.8	213.2	258.9	101.1	-0.3
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	218.3	265.1	100.8	213.2	259.1	101.2	-0.4
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	218.3	265.2	100.8	213.2	258.9	101.1	-0.3
3	1130LINE	FLAX HIL	RYTN J B	1	256	206.9	265.0	100.4	203.0	260.7	101.8	-1.4
2	1416LINE	FLAX HIL	RYTN J B	1	256	218.3	263.8	100.3	213.2	257.5	100.6	-0.3
3	1430LINE	FLAX HIL	RYTN J B	1	256				203.0	257.2	100.5	
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				932.6	1507.0	104.2	
5	387LINE	FRSTBDGE	SOUTHGTN	1	1446				932.6	1490.0	103.0	
2	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				895.8	1481.6	102.5	
2	387LINE	FRSTBDGE	SOUTHGTN	1	1446				895.8	1463.4	101.2	
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				120.6	233.6	102.5	
5	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				122.8	232.5	102.0	
2	387LINE	GLEN JCT	SOUTHGTN	1	228				120.6	228.0	100.0	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.3	441.2	153.1	171.3	427.4	153.2	-0.1
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	176.5	434.5	150.8	170.4	420.2	150.6	0.2
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	176.5	298.3	103.4	170.4	288.8	103.5	-0.1
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	177.3	292.8	101.5	171.3	283.4	101.6	-0.1
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279	176.5	290.8	100.8	170.4	281.6	100.9	-0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	180.5	456.6	100.5	175.2	443.7	101.1	-0.6
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	165.9	433.9	145.4	161.1	421.3	145.8	-0.4
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	156.5	410.9	137.6	150.9	396.9	137.3	0.3
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	150.2	350.9	118.6	145.7	342.4	118.5	0.1
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	150.2	341.5	115.2	145.7	332.8	115.2	0.0
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	145.3	341.0	114.6	141.5	332.7	115.1	-0.5
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	145.3	337.8	113.6	141.5	329.9	114.2	-0.6
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	150.2	313.1	105.5	145.7	304.8	105.5	0.0
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	145.3	309.3	103.9	141.5	301.9	104.5	-0.6
5	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	124.9	294.3	110.9	117.1	265.1	102.8	8.1
2	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	116.3	282.9	106.5				
5	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	124.9	294.3	110.9	117.1	265.1	102.8	8.1
2	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	116.3	282.9	106.5				
2	1620SLINE	HADDAM	BOKUM	1	165				105.4	186.6	113.1	
5	1620SLINE	HADDAM	BOKUM	1	165				105.2	186.3	112.9	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	298.9	223.0	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	298.5	222.8	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	298.3	222.6	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	297.9	222.3	
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.9	111.3	22.5	149.2	111.4	-0.1
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.5	22.5	149.2	111.3	-0.8
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.8	22.4	149.1	111.2	-0.4
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.8	22.4	148.9	111.1	-0.3
3	NORSING1	NORSING2	SINGNOR2	1	794	529.2	958.0	120.0	454.6	808.6	101.8	18.2
4	NORSING1	NORSING2	SINGNOR2	1	794	493.2	885.5	110.4				
3	SINGERSTK	NORSING2	SINGNOR2	1	794				454.6	798.7	100.6	
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	263.2	508.3	193.9	257.3	499.5	195.1	-1.2
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	254.4	498.2	188.3	247.6	486.2	189.9	-1.6
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	263.2	481.2	183.5	257.3	472.3	184.5	-1.0
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	254.4	471.0	177.8	247.6	459.1	179.3	-1.5
2	113091001DCT	NORWALK	FLAX HIL	1	256	263.2	429.4	164.2	257.3	422.1	164.9	-0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	113091001DCT	NORWALK	FLAX HIL	1	256	254.4	424.8	161.2	247.6	417.5	163.1	-1.9
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	263.2	412.0	156.8	257.3	403.6	157.7	-0.9
2	1880LINE	NORWALK	FLAX HIL	1	256	263.2	411.8	156.7	257.3	401.4	156.8	-0.1
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	263.2	411.8	156.7	257.3	401.4	156.8	-0.1
2	NORWALKST2	NORWALK	FLAX HIL	1	256	263.2	409.4	155.5	257.3	399.6	156.1	-0.6
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	263.2	397.3	151.5	257.3	389.4	152.1	-0.6
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	263.2	398.6	151.9	257.3	388.7	151.8	0.1
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	254.4	399.5	150.5	247.6	387.9	151.5	-1.0
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	263.2	394.4	150.5	257.3	386.7	151.1	-0.6
3	1880LINE	NORWALK	FLAX HIL	1	256	254.4	399.3	150.5	247.6	386.6	151.0	-0.5
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	254.4	399.3	150.5	247.6	386.6	151.0	-0.5
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	254.4	392.6	148.7	247.6	385.0	150.4	-1.7
3	NORWALKST2	NORWALK	FLAX HIL	1	256	254.4	395.7	148.7	247.6	383.1	149.6	-0.9
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	254.4	390.1	147.7	247.6	382.5	149.4	-1.7
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	254.4	391.3	147.7	247.6	379.1	148.1	-0.4
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	263.2	370.8	141.4	257.3	363.2	141.9	-0.5
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	254.4	366.6	138.7	247.6	359.1	140.3	-1.6
2	91001LINE	NORWALK	FLAX HIL	1	256	263.2	341.1	129.9	257.3	334.1	130.5	-0.6
3	91001LINE	NORWALK	FLAX HIL	1	256	254.4	334.3	126.3	247.6	326.6	127.6	-1.3
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	263.2	320.6	121.9	257.3	313.8	122.6	-0.7
2	1130LINE	NORWALK	FLAX HIL	1	256	263.2	319.8	121.7	257.3	313.1	122.3	-0.6
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				257.3	309.3	120.8	
2	1430LINE	NORWALK	FLAX HIL	1	256	263.2	315.1	119.8	257.3	308.3	120.4	-0.6
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	254.4	313.8	118.4	247.6	306.5	119.7	-1.3
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	263.2	313.1	119.0	257.3	305.2	119.2	-0.2
3	1130LINE	NORWALK	FLAX HIL	1	256	254.4	312.4	118.0	247.6	305.2	119.2	-1.2
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	263.2	310.4	118.1	257.3	303.9	118.7	-0.6
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	263.2	310.8	118.2	257.3	303.3	118.5	-0.3
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	263.2	309.9	117.8	257.3	303.1	118.4	-0.6
2	1890LINE	NORWALK	FLAX HIL	1	256	263.2	310.0	117.9	257.3	302.6	118.2	-0.3
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	263.2	310.0	117.9	257.3	302.6	118.2	-0.3
2	1416LINE	NORWALK	FLAX HIL	1	256	263.2	308.8	117.5	257.3	301.4	117.7	-0.2
3	1430LINE	NORWALK	FLAX HIL	1	256	254.4	308.3	116.3	247.6	301.2	117.6	-1.3
3	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				247.6	300.2	117.3	
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	254.4	304.2	114.7	247.6	296.3	115.7	-1.0
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	254.4	303.1	114.4	247.6	296.0	115.6	-1.2
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	254.4	303.4	114.4	247.6	296.0	115.6	-1.2
3	1890LINE	NORWALK	FLAX HIL	1	256	254.4	303.5	114.5	247.6	295.6	115.4	-0.9
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	254.4	303.5	114.5	247.6	295.6	115.4	-0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1416LINE	NORWALK	FLAX HIL	1	256	254.4	301.4	113.8	247.6	293.6	114.7	-0.9
2	DARIEN1T	NORWALK	FLAX HIL	1	256	263.2	298.3	113.4	257.3	292.0	114.1	-0.7
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	254.4	300.0	113.0	247.6	289.4	113.0	0.0
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	263.2	295.2	112.2	257.3	288.7	112.8	-0.6
2	1977LINENEW	NORWALK	FLAX HIL	1	256	263.2	294.5	112.0	257.3	288.1	112.5	-0.5
3	DARIEN1T	NORWALK	FLAX HIL	1	256	254.4	291.0	109.8	247.6	284.2	111.0	-1.2
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	254.4	287.8	108.6	247.6	280.9	109.7	-1.1
3	1977LINENEW	NORWALK	FLAX HIL	1	256	254.4	287.2	108.4	247.6	280.2	109.5	-1.1
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	263.2	286.1	108.7	257.3	279.3	109.1	-0.4
2	387+AUTOS	NORWALK	FLAX HIL	1	256	263.2	286.4	109.0				
2	312+393LNS	NORWALK	FLAX HIL	1	256	263.2	281.6	107.1	257.3	277.5	108.4	-1.3
2	312+393REAC	NORWALK	FLAX HIL	1	256	263.2	281.6	107.1	257.3	277.5	108.4	-1.3
2	312LINE	NORWALK	FLAX HIL	1	256	263.2	281.6	107.1	257.3	277.5	108.4	-1.3
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	263.2	281.5	107.0	257.3	277.3	108.3	-1.3
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	263.2	281.4	107.0	257.3	277.3	108.3	-1.3
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	263.2	273.0	103.9	257.3	275.5	107.6	-3.7
2	393LINE	NORWALK	FLAX HIL	1	256	263.2	279.5	106.3	257.3	275.0	107.4	-1.1
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	254.4	278.8	105.2	247.6	271.5	106.1	-0.9
3	387LINE	NORWALK	FLAX HIL	1	256				247.6	271.3	106.0	
3	1460-387DCT	NORWALK	FLAX HIL	1	256	254.4	275.2	103.9	247.6	270.8	105.8	-1.9
2	SINGAUT	NORWALK	FLAX HIL	1	256	263.2	278.0	105.5				
3	398LINE	NORWALK	FLAX HIL	1	256	254.4	283.2	106.8	247.6	269.7	105.3	1.5
3	398LREAC	NORWALK	FLAX HIL	1	256	254.4	283.2	106.8	247.6	269.7	105.3	1.5
2	SNGPEQ-XFR	NORWALK	FLAX HIL	1	256				257.3	269.4	105.2	
3	SCOVK8TSTK	NORWALK	FLAX HIL	1	256				247.6	268.4	104.8	
2	387LINE	NORWALK	FLAX HIL	1	256				257.3	267.5	104.5	
2	1460-387DCT	NORWALK	FLAX HIL	1	256	263.2	286.4	109.1	257.3	266.6	104.1	5.0
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	263.2	272.2	103.4	257.3	266.2	104.0	-0.6
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	263.2	272.6	103.6	257.3	266.0	103.9	-0.3
3	387+AUTOS	NORWALK	FLAX HIL	1	256	254.4	275.2	103.9				
3	NMSTBKREAC	NORWALK	FLAX HIL	1	256	254.4	270.0	101.9	247.6	264.4	103.3	-1.4
3	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	254.4	270.0	101.9	247.6	264.4	103.3	-1.4
3	LONGMT5TSTK	NORWALK	FLAX HIL	1	256	254.4	272.7	103.2				
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	263.2	268.7	102.0	257.3	263.5	102.9	-0.9
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	263.2	269.9	102.5	257.3	263.3	102.8	-0.3
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	263.2	269.9	102.5	257.3	263.3	102.8	-0.3
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	263.2	269.4	102.3	257.3	263.1	102.8	-0.5
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	263.2	269.4	102.3	257.3	263.1	102.8	-0.5
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	263.2	269.4	102.2	257.3	263.3	102.8	-0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	MIXAVE1	NORWALK	FLAX HIL	1	256	263.2	268.5	102.0	257.3	263.2	102.8	-0.8
3	312+393LNS	NORWALK	FLAX HIL	1	256	254.4	268.8	101.4	247.6	263.1	102.8	-1.4
3	312+393REAC	NORWALK	FLAX HIL	1	256	254.4	268.8	101.4	247.6	263.1	102.8	-1.4
3	312LINE	NORWALK	FLAX HIL	1	256	254.4	268.8	101.4	247.6	263.1	102.8	-1.4
2	SCOVK8TSTK	NORWALK	FLAX HIL	1	256				257.3	263.3	102.8	
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	263.2	269.4	102.3	257.3	263.0	102.7	-0.4
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	263.2	269.4	102.3	257.3	263.0	102.7	-0.4
2	STEVENSNSTK	NORWALK	FLAX HIL	1	256	263.2	269.5	102.3	257.3	262.9	102.7	-0.4
3	8100-8200DCT	NORWALK	FLAX HIL	1	256				247.6	262.5	102.6	
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	263.2	268.6	102.0	257.3	262.5	102.5	-0.5
3	PLUMNOR	NORWALK	FLAX HIL	1	256	254.4	271.8	102.5				
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	263.2	267.8	101.7	257.3	262.1	102.4	-0.7
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	263.2	267.3	101.5	257.3	261.9	102.3	-0.8
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	263.2	267.7	101.6	257.3	261.3	102.1	-0.5
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	263.2	266.7	101.3	257.3	261.4	102.1	-0.8
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		257.3	261.3	102.1	
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	263.2	267.3	101.5	257.3	261.1	102.0	-0.5
2	COLONY1T	NORWALK	FLAX HIL	1	256	263.2	267.3	101.5	257.3	261.2	102.0	-0.5
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	263.2	267.1	101.4	257.3	261.2	102.0	-0.6
2	88005ALINE	NORWALK	FLAX HIL	1	256	263.2	266.8	101.3	257.3	260.9	101.9	-0.6
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	263.2	266.8	101.3	257.3	260.9	101.9	-0.6
2	SACKETST1	NORWALK	FLAX HIL	1	256	263.2	265.7	100.9	257.3	260.9	101.9	-1.0
3	393LINE	NORWALK	FLAX HIL	1	256	254.4	266.5	100.5	247.6	260.8	101.9	-1.4
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	263.2	267.3	101.6	257.3	260.7	101.8	-0.2
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	263.2	265.2	100.7	257.3	260.5	101.8	-1.1
2	GRNDV5TSTK	NORWALK	FLAX HIL	1	256	263.2	264.7	100.6	257.3	260.6	101.8	-1.2
2	GRNDV6TSTK	NORWALK	FLAX HIL	1	256	263.2	264.7	100.6	257.3	260.6	101.8	-1.2
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	263.2	267.1	101.5	257.3	260.4	101.7	-0.2
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	263.2	267.1	101.5	257.3	260.4	101.7	-0.2
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	263.2	266.3	101.2	257.3	260.3	101.7	-0.5
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	263.2	266.4	101.2	257.3	260.5	101.7	-0.5
2	1500LINE	NORWALK	FLAX HIL	1	256	263.2	266.4	101.2	257.3	260.4	101.7	-0.5
2	1605LINE	NORWALK	FLAX HIL	1	256	263.2	266.4	101.2	257.3	260.4	101.7	-0.5
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	263.2	266.3	101.2	257.3	260.4	101.7	-0.5
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	263.2	266.3	101.2	257.3	260.4	101.7	-0.5
2	1505LINE	NORWALK	FLAX HIL	1	256	263.2	266.2	101.1	257.3	260.3	101.7	-0.6
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	263.2	266.3	101.1	257.3	260.2	101.7	-0.6
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	263.2	266.5	101.2	257.3	260.0	101.6	-0.4
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	263.2	265.9	101.0	257.3	260.0	101.6	-0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	263.2	264.6	100.5	257.3	260.2	101.6	-1.1
2	DEV-XFR	NORWALK	FLAX HIL	1	256				257.3	260.1	101.6	
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	263.2	266.1	101.1	257.3	259.9	101.5	-0.4
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	263.2	266.1	101.1	257.3	259.8	101.5	-0.4
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	263.2	266.1	101.1	257.3	259.9	101.5	-0.4
2	JUNEST1	NORWALK	FLAX HIL	1	256	263.2	266.2	101.1	257.3	259.9	101.5	-0.4
2	1690LINE	NORWALK	FLAX HIL	1	256	263.2	266.0	101.0	257.3	259.8	101.5	-0.5
2	1355LINE	NORWALK	FLAX HIL	1	256	263.2	265.8	100.9	257.3	259.8	101.5	-0.6
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	263.2	265.8	100.9	257.3	259.7	101.5	-0.6
2	352LINE	NORWALK	FLAX HIL	1	256	263.2	265.1	100.9	257.3	259.8	101.5	-0.6
2	88006ALINE	NORWALK	FLAX HIL	1	256	263.2	265.7	100.9	257.3	259.8	101.5	-0.6
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	263.2	265.7	100.9	257.3	259.9	101.5	-0.6
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	263.2	265.8	100.9	257.3	259.7	101.5	-0.6
2	BROADWYST1	NORWALK	FLAX HIL	1	256	263.2	265.2	100.7	257.3	259.7	101.5	-0.8
2	GRNDAV4TSTK	NORWALK	FLAX HIL	1	256	263.2	264.7	100.5	257.3	259.8	101.5	-1.0
2	GRNDAV7TSTK	NORWALK	FLAX HIL	1	256	263.2	264.7	100.5	257.3	259.8	101.5	-1.0
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	263.2	266.1	101.0	257.3	259.6	101.4	-0.4
2	1770LINE	NORWALK	FLAX HIL	1	256	263.2	266.0	101.0	257.3	259.5	101.4	-0.4
2	PLUMTREE25T	NORWALK	FLAX HIL	1	256	263.2	265.9	101.0	257.3	259.5	101.4	-0.4
2	PLUMTREE28T	NORWALK	FLAX HIL	1	256	263.2	266.1	101.0	257.3	259.5	101.4	-0.4
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	263.2	266.0	101.0	257.3	259.5	101.4	-0.4
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	263.2	266.4	100.9	257.3	259.5	101.4	-0.5
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	263.2	265.5	100.9	257.3	259.7	101.4	-0.5
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	263.2	265.6	100.9	257.3	259.6	101.4	-0.5
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	263.2	266.4	100.9	257.3	259.5	101.4	-0.5
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	263.2	264.6	100.5	257.3	259.6	101.4	-0.9
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	263.2	264.6	100.5	257.3	259.6	101.4	-0.9
2	EDEVDEV2	NORWALK	FLAX HIL	1	256				257.3	259.6	101.4	
2	DEVAUT	NORWALK	FLAX HIL	1	256	263.2	267.3	101.4				
2	SCOVVK5TSTK	NORWALK	FLAX HIL	1	256	263.2	266.7	101.4				
2	89006BLINE	NORWALK	FLAX HIL	1	256	263.2	265.6	100.9	257.3	259.4	101.3	-0.4
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	263.2	265.5	100.8	257.3	259.5	101.3	-0.5
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	263.2	265.3	100.8	257.3	259.3	101.3	-0.5
2	1820LINE	NORWALK	FLAX HIL	1	256	263.2	265.4	100.8	257.3	259.3	101.3	-0.5
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	263.2	265.5	100.8	257.3	259.3	101.3	-0.5
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	263.2	265.4	100.8	257.3	259.4	101.3	-0.5
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	263.2	265.4	100.8	257.3	259.2	101.3	-0.5
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	263.2	265.3	100.8	257.3	259.2	101.3	-0.5
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	263.2	265.3	100.7	257.3	259.2	101.3	-0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	263.2	265.2	100.7	257.3	259.3	101.3	-0.6
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	263.2	265.2	100.7	257.3	259.3	101.3	-0.6
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	263.2	265.2	100.7	257.3	259.1	101.2	-0.5
2	1575LINE	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	1780LINE	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	1790LINE	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.2	101.2	-0.5
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.2	101.2	-0.5
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7	257.3	259.0	101.2	-0.5
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	263.2	265.3	100.7	257.3	259.1	101.2	-0.5
2	88003ALINE	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	259.0	101.2	-0.8
2	89003BLINE	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	259.0	101.2	-0.8
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	263.2	264.4	100.4	257.3	259.1	101.2	-0.8
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	263.2	264.4	100.4	257.3	259.1	101.2	-0.8
2	ESHR-XFR	NORWALK	FLAX HIL	1	256				257.3	259.0	101.2	
2	100+400LINES	NORWALK	FLAX HIL	1	256	263.2	264.9	100.6	257.3	258.9	101.1	-0.5
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	263.2	264.9	100.6	257.3	258.8	101.1	-0.5
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	263.2	264.8	100.6	257.3	258.8	101.1	-0.5
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	263.2	264.9	100.6	257.3	258.8	101.1	-0.5
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	263.2	265.0	100.6	257.3	258.8	101.1	-0.5
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	263.2	264.9	100.6	257.3	258.8	101.1	-0.5
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	258.9	101.1	-0.7
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	258.9	101.1	-0.7
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	263.2	264.5	100.3	257.3	258.8	101.1	-0.8
2	1640-1690DCT	NORWALK	FLAX HIL	1	256	263.2	266.2	101.1				
2	318LINE	NORWALK	FLAX HIL	1	256	263.2	269.4	102.5	257.3	258.6	101.0	1.5
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	263.2	265.4	100.8	257.3	258.6	101.0	-0.2
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	254.4	266.8	100.6	247.6	258.5	101.0	-0.4
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	263.2	264.6	100.5	257.3	258.6	101.0	-0.5
2	1235LINE	NORWALK	FLAX HIL	1	256	263.2	264.6	100.5	257.3	258.6	101.0	-0.5
2	NWALLING1T	NORWALK	FLAX HIL	1	256	263.2	264.5	100.5	257.3	258.5	101.0	-0.5
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	263.2	264.1	100.3	257.3	258.6	101.0	-0.7
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	263.2	264.1	100.3	257.3	258.6	101.0	-0.7
2	1560LINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.2	257.3	258.5	101.0	-0.8
2	GRNDV3TSTK	NORWALK	FLAX HIL	1	256	263.2	263.7	100.1	257.3	258.4	101.0	-0.9
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	263.2	265.6	101.0				
2	362ELINE	NORWALK	FLAX HIL	1	256	263.2	265.4	101.0				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	263.2	269.1	102.4	257.3	258.3	100.9	1.5
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	263.2	268.4	102.3	257.3	258.2	100.9	1.4
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	263.2	264.5	100.5	257.3	258.4	100.9	-0.4
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	258.4	100.9	-0.5
2	1000LINE	NORWALK	FLAX HIL	1	256	263.2	264.3	100.4	257.3	258.3	100.9	-0.5
2	694LINE	NORWALK	FLAX HIL	1	256	263.2	264.2	100.3	257.3	258.2	100.9	-0.6
2	8804ALINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	258.3	100.9	-0.6
2	8904BLINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	258.3	100.9	-0.6
2	8100LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	258.3	100.9	-0.7
2	8200LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	258.3	100.9	-0.7
2	GRNDAV1TSTK	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	258.4	100.9	-0.7
2	362LINE	NORWALK	FLAX HIL	1	256				257.3	258.3	100.9	
2	8400LINE	NORWALK	FLAX HIL	1	256				257.3	258.4	100.9	
2	1250LINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	258.0	100.8	-0.5
2	400LINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	258.0	100.8	-0.5
3	SINGAUT	NORWALK	FLAX HIL	1	256	254.4	267.6	100.8	247.6	257.9	100.7	0.1
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	263.2	264.5	100.5	257.3	257.9	100.7	-0.2
2	1610LINE	NORWALK	FLAX HIL	1	256	263.2	264.5	100.4	257.3	257.9	100.7	-0.3
2	1280LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	257.8	100.7	-0.5
2	667-690LINE	NORWALK	FLAX HIL	1	256	263.2	263.8	100.2	257.3	257.8	100.7	-0.5
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	263.2	263.9	100.2	257.3	257.9	100.7	-0.5
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	263.2	263.9	100.2	257.3	257.9	100.7	-0.5
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.7	100.7	-0.6
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.7	100.7	-0.6
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.7	100.7	-0.6
2	1607LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.1	257.3	257.7	100.7	-0.6
2	1730BLINE	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.7	100.7	-0.6
2	381LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.1	257.3	257.7	100.7	-0.6
2	381LREAC	NORWALK	FLAX HIL	1	256	263.2	263.7	100.1	257.3	257.7	100.7	-0.6
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.7	100.7	-0.6
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.9	100.7	-0.6
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	263.2	263.6	100.1	257.3	257.7	100.7	-0.6
2	84004LINE	NORWALK	FLAX HIL	1	256				257.3	257.8	100.7	
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256				257.3	257.7	100.7	
2	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256				257.3	257.7	100.7	
2	376LINE	NORWALK	FLAX HIL	1	256	263.2	265.1	100.7				
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	263.2	265.8	101.0	257.3	257.6	100.6	0.4
2	310LINE	NORWALK	FLAX HIL	1	256	263.2	264.1	100.3	257.3	257.6	100.6	-0.3
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	257.5	100.6	-0.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	263.2	264.1	100.3	257.3	257.5	100.6	-0.3
2	1272LINE	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.5	100.6	-0.5
2	1445LINE	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.5	100.6	-0.5
2	1585LINE	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.5	100.6	-0.5
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.5	100.6	-0.5
2	89005BLINE	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.4	100.6	-0.5
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	257.5	100.6	-0.5
2	1640LINE	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.6	100.6	-0.6
2	1870LINE	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.4	100.6	-0.6
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.6	100.6	-0.6
2	1460LINE	NORWALK	FLAX HIL	1	256				257.3	257.4	100.6	
2	1537LINE	NORWALK	FLAX HIL	1	256				257.3	257.4	100.6	
2	1685LINE	NORWALK	FLAX HIL	1	256				257.3	257.5	100.6	
2	8300LINE	NORWALK	FLAX HIL	1	256				257.3	257.5	100.6	
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	263.2	265.8	100.9	257.3	257.3	100.5	0.4
2	1208LINE	NORWALK	FLAX HIL	1	256	263.2	264.2	100.4	257.3	257.2	100.5	-0.1
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	263.2	264.2	100.3	257.3	257.2	100.5	-0.2
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	263.2	264.2	100.3	257.3	257.2	100.5	-0.2
2	1887LINE	NORWALK	FLAX HIL	1	256	263.2	263.8	100.2	257.3	257.4	100.5	-0.3
2	1990LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	257.2	100.5	-0.3
2	310-383DCT	NORWALK	FLAX HIL	1	256	263.2	263.8	100.2	257.3	257.4	100.5	-0.3
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	263.2	263.7	100.2	257.3	257.2	100.5	-0.3
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	263.2	263.9	100.2	257.3	257.2	100.5	-0.3
2	1760LINE	NORWALK	FLAX HIL	1	256	263.2	263.7	100.1	257.3	257.2	100.5	-0.4
2	1440LINE	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.4	100.5	-0.5
2	1443LINE	NORWALK	FLAX HIL	1	256	263.2	263.3	100.0	257.3	257.3	100.5	-0.5
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.2	100.5	-0.5
2	100LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1060-1270DCT	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1060LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1070LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1090LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1100LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1165LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1191LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1200LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1206LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1207LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1270LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1310LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1337LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1394LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1410LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1440-1450DCT	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1450LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1466LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1490LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1580LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1588LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1594LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1620LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1655LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1668LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1670-1771DCT	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1670LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1675LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1704LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1721LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1740LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1751LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1753LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1756LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1759LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1763LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1765LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1766LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1767LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1769LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1771LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1772LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1775LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1779LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1785LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1786LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1788LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1792LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1800-1860LNS	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1825LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1830LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1835LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	1900LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1921LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	689LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	693LINE	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	8500LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	8700LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	88003ALINE-1	NORWALK	FLAX HIL	1	256				257.3	257.4	100.5	
2	89003BLINE-1	NORWALK	FLAX HIL	1	256				257.3	257.4	100.5	
2	9500LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	9502LINE	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	BRANFORD2T	NORWALK	FLAX HIL	1	256				257.3	257.4	100.5	
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	LOSSNOR1	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	LOSSNOR2	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256				257.3	257.2	100.5	
2	SNG-PEQTAP	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256			NC	257.3	257.2	100.5	
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256				257.3	257.3	100.5	
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	263.2	264.1	100.3	257.3	257.0	100.4	-0.1
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	263.2	263.8	100.2	257.3	257.1	100.4	-0.2
2	1508LINE	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	256.9	100.4	-0.3
2	1261LINE	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.0	100.4	-0.4
2	1620SLINE	NORWALK	FLAX HIL	1	256	263.2	263.4	100.0	257.3	257.0	100.4	-0.4
2	1050LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1060-1165DCT	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1080-1280DCT	NORWALK	FLAX HIL	1	256				257.3	256.9	100.4	
2	1163LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1515LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1550LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1572LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1620-1975DCT	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1625LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1752LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1777-1779DCT	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1777LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1783LINE	NORWALK	FLAX HIL	1	256				257.3	256.9	100.4	
2	1810LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	1910LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1950LINE	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1975LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	8600LINE	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	HADDAMAT	NORWALK	FLAX HIL	1	256				257.3	257.1	100.4	
2	ORANG-ESHR	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256				257.3	256.9	100.4	
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256				257.3	257.0	100.4	
2	1261-1620SDC	NORWALK	FLAX HIL	1	256	263.2	264.4	100.4				
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	263.2	263.6	100.4				
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	263.2	263.5	100.1	257.3	256.8	100.3	-0.2
2	1207-1775DCT	NORWALK	FLAX HIL	1	256				257.3	256.8	100.3	
2	1570-1580DCT	NORWALK	FLAX HIL	1	256				257.3	256.8	100.3	
2	1570LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	1720LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	1751-1777DCT	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	1773LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	1784LINE	NORWALK	FLAX HIL	1	256				257.3	256.8	100.3	
2	1821LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	1836LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	500LINE	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
2	88005ALINE-2	NORWALK	FLAX HIL	1	256				257.3	256.9	100.3	
2	89005BLINE-2	NORWALK	FLAX HIL	1	256				257.3	256.9	100.3	
2	DEVON7TSTK	NORWALK	FLAX HIL	1	256				257.3	256.7	100.3	
3	1310-1763DCT	NORWALK	FLAX HIL	1	256				247.6	256.7	100.3	
2	329LINE	NORWALK	FLAX HIL	1	256	263.2	263.8	100.4	257.3	256.4	100.2	0.2
2	1342LINE	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	256.5	100.2	0.1
2	BOKUM2T	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	256.5	100.2	0.1
2	BOKUM3T	NORWALK	FLAX HIL	1	256	263.2	264.0	100.3	257.3	256.5	100.2	0.1
2	1080LINE	NORWALK	FLAX HIL	1	256				257.3	256.4	100.2	
2	1630LINE	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	
2	1726LINE	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	
2	1732LINE	NORWALK	FLAX HIL	1	256				257.3	256.6	100.2	
2	301-302LNS	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	
2	383LINE	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	FROSTBR21T	NORWALK	FLAX HIL	1	256				257.3	256.6	100.2	
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256				257.3	256.6	100.2	
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256				257.3	256.5	100.2	
2	310-368DCT	NORWALK	FLAX HIL	1	256	263.2	263.8	100.2				
2	1080-1490DCT	NORWALK	FLAX HIL	1	256				257.3	256.3	100.1	
2	1545LINE	NORWALK	FLAX HIL	1	256				257.3	256.3	100.1	
2	1876LINE	NORWALK	FLAX HIL	1	256				257.3	256.2	100.1	
2	SINGDEV1	NORWALK	FLAX HIL	1	256				257.3	256.2	100.1	
2	1618LINE	NORWALK	FLAX HIL	1	256				257.3	256.1	100.0	
2	329-352DCT	NORWALK	FLAX HIL	1	256	263.2	262.6	100.0				
2	352+AUTO	NORWALK	FLAX HIL	1	256	263.2	262.6	100.0				
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	176.5	425.0	156.1	170.2	411.4	156.4	-0.3
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	149.3	407.2	149.6	142.0	392.1	149.1	0.5
4	113091001DCT	NWLK HAR	ELYAVE	1	263	149.3	294.7	108.4	142.0	285.1	108.4	0.0
5	113091001DCT	NWLK HAR	ELYAVE	1	263	176.5	293.4	108.0	170.2	283.9	108.0	0.0
5	91001LINE	NWLK HAR	ELYAVE	1	263	176.5	274.3	100.9	170.2	265.4	100.9	0.0
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	197.1	328.5	104.4	190.3	317.0	104.3	0.1
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	182.0	328.3	104.4	174.4	316.9	104.2	0.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.0	284.1	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	357.5	283.7	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	357.4	283.6	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	356.8	283.2	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.2	180.8	58.1	228.2	181.1	-0.3
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.1	58.0	227.7	180.7	-0.6
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.1	58.0	227.9	180.9	-0.8
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	179.7	58.1	228.0	181.0	-1.3
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	244.2	177.0	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	242.6	175.8	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	241.4	175.0	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.5	239.4	173.4	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.0	104.7	79.6	144.8	104.9	-0.2
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.2	79.5	144.4	104.6	-0.4
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.2	79.6	144.6	104.8	-0.6
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.5	144.7	103.9	79.6	144.7	104.8	-0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.5	79.6	138.9	100.6	-0.1
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.6	138.9	100.6	
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.2	79.5	138.6	100.4	-0.2
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.2	79.6	138.7	100.5	-0.3
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	134.9	84.2	224.3	135.1	-0.2
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.4	84.0	223.8	134.8	-0.4
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.4	84.1	224.0	135.0	-0.6
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.1	224.7	134.1	84.2	224.2	135.0	-0.9
2	1416-1867DCT	RYTN J A	NORWALK	1	256	245.0	470.1	179.5	239.4	462.5	180.7	-1.2
2	1867-1890DCT	RYTN J A	NORWALK	1	256	245.0	463.6	176.9	239.4	450.9	176.1	0.8
3	1416-1867DCT	RYTN J A	NORWALK	1	256	235.4	459.2	173.7	229.4	449.2	175.5	-1.8
3	1867-1890DCT	RYTN J A	NORWALK	1	256	235.4	453.9	171.5	229.4	439.9	171.8	-0.3
2	1867-1977DCT	RYTN J A	NORWALK	1	256	245.0	443.1	169.1	239.4	435.3	170.1	-1.0
3	1867-1977DCT	RYTN J A	NORWALK	1	256	235.4	432.0	163.2	229.4	422.1	164.9	-1.7
2	113091001DCT	RYTN J A	NORWALK	1	256	245.0	412.3	157.7	239.4	405.3	158.3	-0.6
3	113091001DCT	RYTN J A	NORWALK	1	256	235.4	407.1	154.5	229.4	400.5	156.5	-2.0
2	1389LINE	RYTN J A	NORWALK	1	256	245.0	406.0	154.3	239.4	396.8	155.0	-0.7
3	1389LINE	RYTN J A	NORWALK	1	256	235.4	392.9	147.9	229.4	381.5	149.0	-1.1
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	245.0	390.1	148.2	239.4	380.3	148.6	-0.4
2	1130-1430DCT	RYTN J A	NORWALK	1	256	245.0	380.0	144.9	239.4	372.4	145.5	-0.6
2	1416-1890DCT	RYTN J A	NORWALK	1	256	245.0	377.5	144.1	239.4	370.2	144.6	-0.5
3	1130-1430DCT	RYTN J A	NORWALK	1	256	235.4	374.8	141.9	229.4	368.0	143.7	-1.8
2	1867LINE	RYTN J A	NORWALK	1	256	245.0	375.7	143.1	239.4	365.9	142.9	0.2
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	245.0	375.7	143.1	239.4	365.9	142.9	0.2
3	1416-1890DCT	RYTN J A	NORWALK	1	256	235.4	372.7	141.2	229.4	365.9	142.9	-1.7
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	235.4	377.1	141.9	229.4	365.4	142.7	-0.8
3	1867LINE	RYTN J A	NORWALK	1	256	235.4	362.2	136.6	229.4	350.8	137.0	-0.4
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	235.4	362.2	136.6	229.4	350.8	137.0	-0.4
2	1890-1977DCT	RYTN J A	NORWALK	1	256	245.0	353.7	134.8	239.4	346.4	135.3	-0.5
3	1890-1977DCT	RYTN J A	NORWALK	1	256	235.4	348.9	132.0	229.4	342.2	133.7	-1.7
2	91001LINE	RYTN J A	NORWALK	1	256	245.0	323.0	123.0	239.4	316.4	123.6	-0.6
3	91001LINE	RYTN J A	NORWALK	1	256	235.4	315.5	119.2	229.4	308.8	120.6	-1.4
2	1130LINE	RYTN J A	NORWALK	1	256	245.0	302.2	115.0	239.4	295.9	115.6	-0.6
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	245.0	302.5	115.0	239.4	296.0	115.6	-0.6
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				239.4	291.9	114.0	
2	1430LINE	RYTN J A	NORWALK	1	256	245.0	297.0	112.9	239.4	290.7	113.5	-0.6
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	235.4	294.9	111.3	229.4	288.6	112.7	-1.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1130LINE	RYTN J A	NORWALK	1	256	235.4	294.1	111.1	229.4	287.8	112.4	-1.3
2	1130+1416LNS	RYTN J A	NORWALK	1	256	245.0	292.7	111.3	239.4	286.5	111.9	-0.6
2	SASCOCR1T	RYTN J A	NORWALK	1	256	245.0	292.9	111.4	239.4	285.9	111.7	-0.3
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	245.0	292.0	111.0	239.4	285.6	111.6	-0.6
2	1890LINE	RYTN J A	NORWALK	1	256	245.0	292.1	111.1	239.4	285.2	111.4	-0.3
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	245.0	292.1	111.1	239.4	285.2	111.4	-0.3
2	1416LINE	RYTN J A	NORWALK	1	256	245.0	291.0	110.7	239.4	284.1	111.0	-0.3
3	1430LINE	RYTN J A	NORWALK	1	256	235.4	289.4	109.2	229.4	283.4	110.7	-1.5
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				229.4	282.6	110.4	
3	SASCOCR1T	RYTN J A	NORWALK	1	256	235.4	285.6	107.7	229.4	278.7	108.9	-1.2
3	1130+1416LNS	RYTN J A	NORWALK	1	256	235.4	284.7	107.5	229.4	278.5	108.8	-1.3
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	235.4	284.8	107.4	229.4	278.3	108.7	-1.3
3	1890LINE	RYTN J A	NORWALK	1	256	235.4	284.9	107.5	229.4	277.9	108.6	-1.1
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	235.4	284.9	107.5	229.4	277.9	108.6	-1.1
3	1416LINE	RYTN J A	NORWALK	1	256	235.4	283.0	106.8	229.4	276.2	107.9	-1.1
2	DARIEN1T	RYTN J A	NORWALK	1	256	245.0	280.4	106.6	239.4	274.5	107.2	-0.6
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	245.0	277.3	105.4	239.4	271.2	105.9	-0.5
2	1977LINENEW	RYTN J A	NORWALK	1	256	245.0	276.6	105.2	239.4	270.6	105.7	-0.5
3	DARIEN1T	RYTN J A	NORWALK	1	256	235.4	272.4	102.8	229.4	266.5	104.1	-1.3
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	235.4	269.3	101.6	229.4	263.2	102.8	-1.2
3	1977LINENEW	RYTN J A	NORWALK	1	256	235.4	268.6	101.4	229.4	262.5	102.6	-1.2
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	245.0	268.1	101.9	239.4	261.6	102.2	-0.3
2	387+AUTOS	RYTN J A	NORWALK	1	256	245.0	268.4	102.2				
2	1460-387DCT	RYTN J A	NORWALK	1	256	245.0	268.4	102.2				
2	312LINE	RYTN J A	NORWALK	1	256	245.0	263.4	100.2	239.4	259.7	101.4	-1.2
2	312+393LNS	RYTN J A	NORWALK	1	256	245.0	263.4	100.2	239.4	259.7	101.4	-1.2
2	312+393REAC	RYTN J A	NORWALK	1	256	245.0	263.4	100.2	239.4	259.7	101.4	-1.2
2	NOMNTSTBKR	RYTN J A	NORWALK	1	256	245.0	263.2	100.1	239.4	259.5	101.4	-1.3
2	NMSTBKREAC	RYTN J A	NORWALK	1	256	245.0	263.3	100.1	239.4	259.5	101.4	-1.3
2	8100-8200DCT	RYTN J A	NORWALK	1	256				239.4	258.0	100.8	
2	393LINE	RYTN J A	NORWALK	1	256				239.4	257.2	100.5	
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	183.6	409.7	143.9	177.0	394.6	144.0	-0.1
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	168.7	404.8	142.3	161.2	391.3	142.8	-0.5
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1306.8	1850.4	115.4	
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1278.1	1839.8	114.7	
2	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1306.8	1727.9	107.7	
2	318LINE	SCOV L RK	E.SHORE	1	1604				1306.8	1721.9	107.3	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1278.1	1711.8	106.7	
5	318LINE	SCOV L RK	E.SHORE	1	1604				1278.1	1705.4	106.3	
2	SGTN5TSTK	SCOV L RK	E.SHORE	1	1604				1306.8	1646.5	102.7	
5	SGTN5TSTK	SCOV L RK	E.SHORE	1	1604				1278.1	1630.7	101.7	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				157.6	267.4	105.7	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				156.3	267.0	105.5	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.5	365.6	123.2	112.8	356.0	123.2	0.0
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.7	365.6	123.2	113.1	356.0	123.2	0.0
4	1440-1450DCT	SO.END	GLNBRK J	1	289	113.2	365.6	123.2	109.7	356.0	123.2	0.0
5	1440-1450DCT	SO.END	GLNBRK J	1	289	112.4	365.6	123.2	108.9	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	266.9	637.2	108.9	286.3	759.9	129.9	-21.0
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	266.4	626.9	107.2	286.8	747.7	127.8	-20.6
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	258.8	602.8	103.0	272.5	697.0	119.1	-16.1
4	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	252.3	594.2	101.6	261.7	672.0	114.9	-13.3
4	DEVON2TSTK	TRMB J A	PEQUONIC	1					59.3	236.3	102.3	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	55.7	281.9	100.5				
5	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	62.7	280.5	100.0				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.4	299.0	124.8	69.5	298.4	124.8	0.0
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.8	299.0	124.8	69.9	298.4	124.8	0.0
5	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	70.0	298.4	124.8	0.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x			East Shore Alternative (PowerGEM) Cases 10B-13B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.8	102.5	0.0
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.8	102.5	0.0
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.1	367.3	102.5	132.9	360.8	102.5	0.0
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	133.0	360.8	102.5	0.0
2	TRIANGLE2T						NC					
3	TRIANGLE2T						NC					
4	TRIANGLE2T						NC					
5	TRIANGLE2T						NC					
2	TRIANGLE3T						NC					
3	TRIANGLE3T						NC					
4	TRIANGLE3T						NC					
5	TRIANGLE3T						NC					

Appendix C2
Voltage Results
New Haven Harbor On, NE-NY=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NE to NY Transfer = 700 MW

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x		East Shore Alternative (PowerGEM) Cases 10B-13B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	1545-1570DCT	ANSONIA	115	1.006	0.894		
2	DEVON6TSTK	ANSONIA	115	1.006	0.894		
5	1272-1721DCT	BALDWINB	115	1.008	0.874	1.005	0.864
2	1272-1721DCT	BALDWINB	115	1.008	0.881	1.007	0.876
4	1272-1721DCT	BALDWINB	115	1.010	0.884	1.006	0.884
3	1272-1721DCT	BALDWINB	115	1.011	0.885	1.008	0.884
5	BUNKERH2T	BALDWINB	116			1.005	0.895
5	1272-1721DCT	BCNFL PF				0.995	0.893
3	BRANFORD4T	BRANFORD	115	1.034	1.055	1.030	1.052
4	BRANFORD4T	BRANFORD	115	1.035	1.055	1.033	1.053
5	1272-1721DCT	BUNKER H	115	1.017	0.874	1.015	0.864
2	1272-1721DCT	BUNKER H	115	1.017	0.881	1.017	0.877
4	1272-1721DCT	BUNKER H	115	1.019	0.885	1.015	0.884
3	1272-1721DCT	BUNKER H	115	1.021	0.885	1.017	0.884
5	BUNKERH2T	BUNKER H	116			1.015	0.897

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x		East Shore Alternative (PowerGEM) Cases 10B-13B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	GRNDAV7TSTK	ELMWST A	115	1.029	0.880	1.028	0.895
5	WRIVER1TSTK	ELMWST A	115	1.029	0.881	1.028	0.897
2	GRNDAV7TSTK	ELMWST A	115	1.030	0.885		
5	GRNDAV6TSTK	ELMWST A	115	1.029	0.885		
2	WRIVER1TSTK	ELMWST A	115	1.030	0.886		
2	GRNDAV6TSTK	ELMWST A	115	1.030	0.889		
3	WRIVER1TSTK	ELMWST A	115	1.033	0.889		
3	GRNDAV7TSTK	ELMWST A	115	1.033	0.890		
4	WRIVER1TSTK	ELMWST A	115	1.034	0.893		
3	GRNDAV6TSTK	ELMWST A	115	1.033	0.894		
4	GRNDAV7TSTK	ELMWST A	115	1.034	0.894		
4	GRNDAV6TSTK	ELMWST A	115	1.034	0.898		
5	GRNDAV4TSTK	ELMWST B	115	1.029	0.877	1.028	0.894
5	WRIVER2TSTK	ELMWST B	115	1.029	0.878	1.028	0.895
2	GRNDAV4TSTK	ELMWST B	115	1.030	0.882		
5	GRNDAV5TSTK	ELMWST B	115	1.029	0.882	1.028	0.899
2	WRIVER2TSTK	ELMWST B	115	1.030	0.883		
2	GRNDAV5TSTK	ELMWST B	115	1.030	0.886		
3	WRIVER2TSTK	ELMWST B	115	1.033	0.887	1.031	0.899
3	GRNDAV4TSTK	ELMWST B	115	1.033	0.887		
4	WRIVER2TSTK	ELMWST B	115	1.034	0.891		
3	GRNDAV5TSTK	ELMWST B	115	1.033	0.891		
4	GRNDAV4TSTK	ELMWST B	115	1.034	0.891		
4	GRNDAV5TSTK	ELMWST B	115	1.034	0.895		

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-x		East Shore Alternative (PowerGEM) Cases 10B-13B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	1272-1721DCT	FREIGHT	115	1.019	0.873	1.017	0.863
2	1272-1721DCT	FREIGHT	115	1.019	0.880	1.018	0.875
4	1272-1721DCT	FREIGHT	115	1.021	0.883	1.017	0.883
3	1272-1721DCT	FREIGHT	115	1.022	0.884	1.019	0.883
2	1545-1570DCT	IND.WELL	115	1.006	0.884		
2	DEVON6TSTK	IND.WELL	115	1.006	0.884		
5	1545-1570DCT	IND.WELL	115	1.006	0.895		
5	DEVON6TSTK	IND.WELL	115	1.006	0.895		
4	1545-1570DCT	IND.WELL	115	1.007	0.897		
4	DEVON6TSTK	IND.WELL	115	1.007	0.897		
3	NOHAVN2TSTK	NO.HAVEN	115	1.043	1.052		
4	NOHAVN2TSTK	NO.HAVEN	115	1.043	1.053	1.042	1.052
5	1272-1721DCT	SO.NAUG	115			1.006	0.894

Appendix D1
Thermal Results
New Haven Harbor Off, NE-NY=700

**Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level
Worst Case Thermal Overload Summary**

**Comparison of Middletown-Norwalk and East Shore Alternatives
Kleen Energy Dispatched in Place of New Haven Harbor - NE to NY Transfer = 700 MW
Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 14, 15, 16 & 17 (PowerGEM)**

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconductored 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1460-387DCT	BALDWNJA	FROST BR	1	287				184.5	328.6	114.5	179.7	328.0	114.3	
2	1460-387DCT	BALDWNJA	STEVENS	1	282				154.2	294.6	104.5	149.4	294.0	104.3	
2	1460-387DCT	BALDWNJB	BUNKER H	1	165				110.0	174.4	105.7	108.0	174.1	105.5	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	12.1	133.0	131.9	25.2	149.3	133.3	23.2	149.2	133.2	-1.3
5	SCOVVK8TSTK	BOKUM	GREEN HL	1					165.5	292.0	102.8	161.5	290.6	102.3	
3	1389-1880DCT	CRRA JCT	ASHCREEK	1					280.1	441.1	100.5	279.7	440.2	100.3	
2	DEVSING1	DEVSING2	SINGDEV2	1	794	468.4	890.9	110.9							
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	50.1	121.6	108.2							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	225.8	472.0	180.5	219.3	462.6	180.7	218.1	460.5	179.9	0.6
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				1000.1	1742.4	120.5	978.8	1741.0	120.4	
2	1460-387DCT	GLEN JCT	MIX AVE	1	178				79.2	181.9	102.2	76.1	181.8	102.1	
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				147.9	299.4	131.3	142.9	299.0	131.1	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.6	443.3	153.8	171.5	428.8	153.7	171.9	429.8	154.0	-0.2
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	183.6	463.6	102.1	177.4	448.8	102.2	177.4	449.4	102.4	-0.3
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	168.8	441.1	147.8	163.3	426.3	147.5	163.3	426.2	147.5	0.3
5	318LINE	HADAUTO	MILLSTNE	1	1524				1047.2	1607.5	105.5	1038.2	1576.2	103.4	
5	1620SLINE	HADDAM	BOKUM	1	165	104.3	182.5	111.6	118.5	210.1	127.4	116.5	206.5	125.2	-13.6
5	1261LINE	HADDAM	BOKUM	2	191				121.5	211.4	110.7	119.4	207.8	108.8	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.3	226.3	22.5	303.1	226.2	
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	270.7	517.8	197.9	262.9	506.9	198.0	261.7	504.8	197.2	0.7
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	185.1	430.8	158.3	175.2	415.1	157.8	176.3	417.5	158.8	-0.5
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	177.4	328.1	104.3	171.8	317.6	104.5	173.1	317.5	104.4	-0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	362.6	287.8	58.1	362.3	287.6	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	260.1	188.5	79.7	259.5	188.0	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.1	84.3	224.6	135.3	84.2	224.4	135.2	-0.1
2	1416-1867DCT	RYTN J A	NORWALK	1	256	252.5	479.6	183.4	245.2	470.0	183.6	244.0	467.9	182.8	0.6
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	164.1	403.6	141.9	158.2	391.0	142.7	159.5	394.0	143.8	-1.9
2	MONTVSTBKR	SCOV L RK	KLEEN	1	1446							1021.0	1450.0	100.3	
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1519.0	2153.4	134.3	1566.9	2198.9	115.0	
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				168.5	286.9	113.4	166.0	282.2	111.5	
3	NORSING1	SINGNOR2	NORSING2	1	794	528.2	954.1	119.8							
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.3	365.6	123.2	112.7	356.0	123.2	112.7	356.0	123.2	0.0
2	1460-387DCT	SOUTHGTN	MERID362	1	1912				1260.7	2190.3	114.6	1232.3	2189.8	114.5	
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	270.8	650.9	111.3	293.8	794.3	135.8	291.5	781.1	133.5	-22.2
2	387LINE	SOUTHGTN	WLNGF PF	1	330				186.7	368.1	111.5	180.5	364.3	110.4	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.8	102.5	132.4	360.8	102.5	0.0
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	194.0	298.3	120.8							

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

Kleen Energy Dispatched in Place of New Haven Harbor - NE to NY Transfer = 700 MW

Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 14, 15, 16 & 17 (PowerGEM)

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1460-387DCT	BALDWNJA	FROST BR	1	287				184.5	328.6	114.5	179.7	328.0	114.3	
2	387LINE	BALDWNJA	FROST BR	1	287				184.5	327.2	114.0	179.7	323.1	112.6	
2	SCOVK8TSTK	BALDWNJA	FROST BR	1	287				184.5	315.0	109.7	179.7	316.5	110.3	
5	1460-387DCT	BALDWNJA	FROST BR	1	287				177.5	314.3	109.5	172.8	313.1	109.1	
5	387LINE	BALDWNJA	FROST BR	1	287				177.5	309.4	107.8	172.8	308.8	107.6	
5	SCOVK8TSTK	BALDWNJA	FROST BR	1	287				177.5	308.6	107.5	172.8	307.1	107.0	
2	SCOVK5TSTK	BALDWNJA	FROST BR	1	287				184.5	295.3	102.9	179.7	294.6	102.6	
2	1618-321DCT	BALDWNJA	FROST BR	1	287				184.5	299.4	104.3	179.7	288.0	100.3	
2	1460-387DCT	BALDWNJA	STEVENS	1	282				154.2	294.6	104.5	149.4	294.0	104.3	
2	387LINE	BALDWNJA	STEVENS	1	282				154.2	291.8	103.5	149.4	289.0	102.5	
2	1460-387DCT	BALDWNJB	BUNKER H	1	165				110.0	174.4	105.7	108.0	174.1	105.5	
2	387LINE	BALDWNJB	BUNKER H	1	165				110.0	175.0	106.0	108.0	172.1	104.3	
2	SCOVK8TSTK	BALDWNJB	BUNKER H	1	165				110.0	169.3	102.6	108.0	170.6	103.4	
5	SCOVK8TSTK	BALDWNJB	BUNKER H	1	165				110.7	171.1	103.7	108.7	170.2	103.2	
5	1460-387DCT	BALDWNJB	BUNKER H	1	165				110.7	170.7	103.5	108.7	170.0	103.0	
5	387LINE	BALDWNJB	BUNKER H	1	165				110.7	168.7	102.2	108.7	168.4	102.1	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	12.1	133.0	131.9	25.2	149.3	133.3	23.2	149.2	133.2	-1.3
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	12.6	132.2	129.8	27.1	147.2	131.4	25.2	146.9	131.2	-1.4
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	16.8	130.9	127.9	10.5	143.4	128.1	10.6	143.3	128.0	-0.1
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	31.7	129.9	127.0	23.0	142.2	127.0	23.9	142.1	126.9	0.1
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	12.1	111.4	107.6	25.2	123.0	109.8	23.2	122.9	109.7	-2.1
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	12.6	110.8	106.2	27.1	120.9	107.9	25.2	120.7	107.8	-1.6
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	16.8	109.6	104.6	10.5	117.5	104.9	10.6	117.4	104.8	-0.2
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	31.7	108.6	103.7	23.0	116.2	103.8	23.9	116.2	103.7	0.0
5	SCOVK8TSTK	BOKUM	GREEN HL	1					165.5	292.0	102.8	161.5	290.6	102.3	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	SCOVKR8TSTK	BOKUM	GREEN HL	1					165.7	289.9	102.1	161.6	291.7	102.7	
2	387LINE	BOKUM	GREEN HL	1					165.7	288.9	101.7	161.6	285.6	100.6	
3	1389-1880DCT	CRRA JCT	ASHCREEK	1					280.1	441.1	100.5	279.7	440.2	100.3	
2	1389-1880DCT	CRRA JCT	ASHCREEK	1					270.6	439.1	100.0				
2	DEVSING1	DEVSING2	SINGDEV2	1	794	468.4	890.9	110.9							
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	50.1	121.6	108.2							
2	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	49.1	119.6	106.1							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	225.8	472.0	180.5	219.3	462.6	180.7	218.1	460.5	179.9	0.6
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	214.0	458.0	174.1	207.4	446.9	174.6	206.8	445.6	174.1	0.0
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	225.8	445.2	170.1	219.3	435.5	170.1	218.1	433.4	169.3	0.8
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	214.0	431.0	163.7	207.4	419.8	164.0	206.8	418.6	163.5	0.2
2	113091001DCT	FLAX HIL	RYTN J B	1	256	225.8	387.6	148.2	219.3	381.5	149.0	218.1	379.9	148.4	-0.2
3	113091001DCT	FLAX HIL	RYTN J B	1	256	214.0	380.3	144.7	207.4	374.7	146.4	206.8	373.8	146.0	-1.3
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	225.8	378.5	144.2	219.3	368.1	143.8	218.1	366.3	143.1	1.1
2	1880LINE	FLAX HIL	RYTN J B	1	256	225.8	378.3	144.2	219.3	365.8	142.9	218.1	364.0	142.2	2.0
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	225.8	378.3	144.2	219.3	365.8	142.9	218.1	364.0	142.2	2.0
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	225.8	376.5	143.4	219.3	363.7	142.1	218.1	362.0	141.4	2.0
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	225.8	358.8	137.2	219.3	349.3	136.4	218.1	349.1	136.4	0.8
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	214.0	362.2	137.2	207.4	350.0	136.7	206.8	348.9	136.3	0.9
3	1880LINE	FLAX HIL	RYTN J B	1	256	214.0	362.0	137.1	207.4	348.5	136.1	206.8	347.5	135.7	1.4
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	214.0	362.0	137.1	207.4	348.5	136.1	206.8	347.5	135.7	1.4
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	225.8	355.5	135.6	219.3	348.9	136.3	218.1	347.2	135.6	0.0
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	225.8	352.1	134.5	219.3	345.9	135.1	218.1	344.3	134.5	0.0
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	214.0	358.7	135.7	207.4	344.7	134.6	206.8	343.6	134.2	1.5
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	214.0	348.3	132.2	207.4	342.4	133.7	206.8	341.4	133.4	-1.2
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	214.0	345.5	131.2	207.4	339.7	132.7	206.8	338.7	132.3	-1.1
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	214.0	348.8	132.5	207.4	338.3	132.2	206.8	338.3	132.1	0.4
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	225.8	328.5	125.3	219.3	322.2	125.8	218.1	320.6	125.2	0.1
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	214.0	321.9	122.1	207.4	316.1	123.5	206.8	315.2	123.1	-1.0
2	91001LINE	FLAX HIL	RYTN J B	1	256	225.8	301.5	114.9	219.3	294.7	115.1	218.1	293.3	114.6	0.3
3	91001LINE	FLAX HIL	RYTN J B	1	256	214.0	292.0	110.7	207.4	285.3	111.5	206.8	284.5	111.1	-0.4
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	225.8	281.2	107.0	219.3	274.5	107.2	218.1	273.1	106.7	0.3
2	1130LINE	FLAX HIL	RYTN J B	1	256	225.8	280.8	107.0	219.3	274.1	107.1	218.1	272.8	106.6	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				219.3	271.1	105.9	218.1	269.9	105.4	
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	225.8	279.4	106.4	219.3	269.3	105.2	218.1	269.0	105.1	1.3
2	1430LINE	FLAX HIL	RYTN J B	1	256	225.8	275.8	104.9	219.3	269.3	105.2	218.1	268.0	104.7	0.2
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	214.0	271.7	102.9	207.4	265.3	103.6	206.8	264.5	103.3	-0.4
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	225.8	271.4	103.3	219.3	264.9	103.5	218.1	263.5	102.9	0.4
3	1130LINE	FLAX HIL	RYTN J B	1	256	214.0	270.6	102.6	207.4	264.1	103.2	206.8	263.3	102.9	-0.3
2	SASCOCR1T	FLAX HIL	RYTN J B	1	256	225.8	271.0	103.1	219.3	264.0	103.1	218.1	262.6	102.6	0.5
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	225.8	270.2	102.8	219.3	263.6	103.0	218.1	262.3	102.4	0.4
2	1890LINE	FLAX HIL	RYTN J B	1	256	225.8	270.3	102.9	219.3	263.3	102.9	218.1	261.9	102.3	0.6
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	225.8	270.3	102.9	219.3	263.3	102.9	218.1	261.9	102.3	0.6
2	1416LINE	FLAX HIL	RYTN J B	1	256	225.8	269.8	102.7	219.3	262.6	102.6	218.1	261.3	102.1	0.6
3	1430LINE	FLAX HIL	RYTN J B	1	256	214.0	266.2	100.7	207.4	260.2	101.6	206.8	259.4	101.3	-0.6
3	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				207.4	259.8	101.5	206.8	259.1	101.2	
5	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				1000.1	1742.4	120.5	978.8	1741.0	120.4	
2	1460-387DCT	FRSTBDGE	SOUTHGTN	1	1446				961.8	1731.1	119.7	940.0	1731.1	119.7	
2	387LINE	FRSTBDGE	SOUTHGTN	1	1446				961.8	1714.3	118.6	978.8	1714.7	118.6	
5	387LINE	FRSTBDGE	SOUTHGTN	1	1446				1000.1	1714.8	118.6	940.0	1703.6	117.8	
5	SCOVKR8TSTK	FRSTBDGE	SOUTHGTN	1	1446				1000.1	1638.0	113.3	978.8	1632.8	112.9	
2	SCOVKR8TSTK	FRSTBDGE	SOUTHGTN	1	1446				961.8	1591.9	110.1	940.0	1597.9	110.5	
5	SCOVKR5TSTK	FRSTBDGE	SOUTHGTN	1	1446				1000.1	1524.4	105.4	978.8	1524.0	105.4	
2	SCOVKR5TSTK	FRSTBDGE	SOUTHGTN	1	1446				961.8	1491.9	103.2	940.0	1491.6	103.2	
2	1460-387DCT	GLEN JCT	MIX AVE	1	178				79.2	181.9	102.2	76.1	181.8	102.1	
2	387LINE	GLEN JCT	MIX AVE	1	178				79.2	178.9	100.5				
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				147.9	299.4	131.3	142.9	299.0	131.1	
5	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				150.4	295.8	129.8	145.5	294.8	129.3	
5	SCOVKR8TSTK	GLEN JCT	SOUTHGTN	1	228				150.4	292.2	128.2	145.5	290.6	127.5	
2	387LINE	GLEN JCT	SOUTHGTN	1	228				147.9	294.3	129.1	142.9	290.4	127.4	
2	SCOVKR8TSTK	GLEN JCT	SOUTHGTN	1	228				147.9	286.8	125.8	142.9	288.5	126.6	
5	387LINE	GLEN JCT	SOUTHGTN	1	228				150.4	287.4	126.0	145.5	286.9	125.8	
5	SCOVKR5TSTK	GLEN JCT	SOUTHGTN	1	228				150.4	264.7	116.1	145.5	264.1	115.8	
2	SCOVKR5TSTK	GLEN JCT	SOUTHGTN	1	228				147.9	264.1	115.8	142.9	263.6	115.6	
2	SCOVKR7TSTK	GLEN JCT	SOUTHGTN	1	228				147.9	251.8	110.4	142.9	251.3	110.2	
5	SCOVKR7TSTK	GLEN JCT	SOUTHGTN	1	228				150.4	251.1	110.1	145.5	250.4	109.8	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.6	443.3	153.8	171.5	428.8	153.7	171.9	429.8	154.0	-0.2
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	176.6	436.0	151.3	170.7	421.6	151.1	170.4	420.9	150.9	0.4
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	176.6	296.6	102.8	170.7	288.0	103.2	170.4	287.8	103.2	-0.4
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	177.6	291.2	101.0	171.5	282.5	101.2	171.9	282.8	101.3	-0.3
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279	176.6	289.1	100.2	170.7	280.7	100.6	170.4	280.5	100.5	-0.3
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	183.6	463.6	102.1	177.4	448.8	102.2	177.4	449.4	102.4	-0.3
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	168.8	441.1	147.8	163.3	426.3	147.5	163.3	426.2	147.5	0.3
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	159.2	417.6	139.9	152.7	401.0	138.7	152.6	400.9	138.7	1.2
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	154.0	357.9	121.0	149.2	348.0	120.4	149.0	347.8	120.4	0.6
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	148.2	347.8	117.0	143.4	337.2	116.7	143.4	337.2	116.7	0.3
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	154.0	344.4	116.3	149.2	336.2	116.3	149.0	335.8	116.2	0.1
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	148.2	339.5	114.2	143.4	331.2	114.6	143.4	330.9	114.5	-0.3
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	154.0	316.0	106.6	149.2	308.1	106.6	149.0	307.7	106.5	0.1
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	148.2	311.0	104.5	143.4	303.1	104.9	143.4	302.9	104.8	-0.3
5	318LINE	HADAUTO	MILLSTNE	1	1524				1047.2	1607.5	105.5	1038.2	1576.2	103.4	
5	SGTN3TSTK	HADAUTO	MILLSTNE	1	1524				1047.2	1597.7	104.8	1038.2	1567.0	102.8	
2	318LINE	HADAUTO	MILLSTNE	1	1524				1034.7	1577.8	103.5	1025.5	1549.0	101.6	
2	SGTN3TSTK	HADAUTO	MILLSTNE	1	1524				1034.7	1567.0	102.8	1025.5	1538.2	100.9	
5	1620SLINE	HADDAM	BOKUM	1	165	104.3	182.5	111.6	118.5	210.1	127.4	116.5	206.5	125.2	-13.6
2	1620SLINE	HADDAM	BOKUM	1	165	102.6	179.6	109.7	118.5	210.1	127.3	116.4	206.4	125.1	-15.4
2	SCOVK8TSTK	HADDAM	BOKUM	1	165				118.5	187.0	113.3	116.4	188.2	114.0	
5	SCOVK8TSTK	HADDAM	BOKUM	1	165				118.5	187.9	113.9	116.5	187.2	113.5	
2	387LINE	HADDAM	BOKUM	1	165				118.5	184.8	112.0	116.4	182.6	110.7	
5	387LINE	HADDAM	BOKUM	1	165				118.5	179.2	108.6	116.5	179.0	108.5	
2	SCOVK5TSTK	HADDAM	BOKUM	1	165				118.5	168.8	102.3	116.4	168.6	102.2	
5	SCOVK5TSTK	HADDAM	BOKUM	1	165				118.5	168.4	102.1	116.5	168.2	101.9	
3	1620SLINE	HADDAM	BOKUM	1	165				96.2	170.4	103.3	94.7	167.7	101.7	
2	SCOVK7TSTK	HADDAM	BOKUM	1	165				118.5	165.7	100.4	116.4	165.5	100.3	
5	1261LINE	HADDAM	BOKUM	2	191				121.5	211.4	110.7	119.4	207.8	108.8	
2	1261LINE	HADDAM	BOKUM	2	191				121.5	211.4	110.7	119.4	207.7	108.7	
2	SCOVK8TSTK	HADDAM	BOKUM	2	191				121.5	191.7	100.4	119.4	193.0	101.0	
5	SCOVK8TSTK	HADDAM	BOKUM	2	191				121.5	192.6	100.9	119.4	192.0	100.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.3	226.3	22.5	303.1	226.2	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.0	226.1	22.5	302.8	226.0	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	302.6	225.8	22.5	302.5	225.8	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	298.2	222.6	22.5	298.2	222.5	
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.7	110.3	22.5	149.4	111.5	22.5	149.4	111.5	-1.2
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.7	147.0	111.5	22.5	149.5	111.5	22.5	149.3	111.4	0.1
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.9	110.9	22.5	149.3	111.4	22.5	149.2	111.4	-0.5
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.9	110.9	22.5	149.1	111.3	22.5	149.1	111.3	-0.4
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	270.7	517.8	197.9	262.9	506.9	198.0	261.7	504.8	197.2	0.7
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	261.3	506.9	191.8	251.7	491.5	192.0	251.1	490.3	191.5	0.3
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	270.7	490.7	187.4	262.9	479.7	187.4	261.7	477.6	186.6	0.8
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	261.3	479.7	181.3	251.7	464.4	181.4	251.1	463.2	180.9	0.4
2	113091001DCT	NORWALK	FLAX HIL	1	256	270.7	431.9	165.4	262.9	425.3	166.1	261.7	423.7	165.5	-0.1
3	113091001DCT	NORWALK	FLAX HIL	1	256	261.3	426.9	162.1	251.7	418.9	163.6	251.1	417.9	163.3	-1.2
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	270.7	423.7	161.5	262.9	412.2	161.0	261.7	410.4	160.3	1.2
2	1880LINE	NORWALK	FLAX HIL	1	256	270.7	423.5	161.4	262.9	409.0	159.8	261.7	407.4	159.1	2.3
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	270.7	423.5	161.4	262.9	409.0	159.8	261.7	407.4	159.1	2.3
2	NORWALKST2	NORWALK	FLAX HIL	1	256	270.7	422.4	160.7	262.9	407.7	159.3	261.7	406.1	158.6	2.1
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	270.7	405.4	154.7	262.9	394.2	154.0	261.7	394.0	153.9	0.8
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	261.3	410.5	154.9	251.7	394.6	154.1	251.1	393.5	153.7	1.2
3	1880LINE	NORWALK	FLAX HIL	1	256	261.3	410.3	154.8	251.7	392.9	153.5	251.1	391.8	153.1	1.7
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	261.3	410.3	154.8	251.7	392.9	153.5	251.1	391.8	153.1	1.7
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	270.7	399.7	152.7	262.9	392.4	153.3	261.7	390.8	152.7	0.0
3	NORWALKST2	NORWALK	FLAX HIL	1	256	261.3	407.8	153.5	251.7	389.9	152.3	251.1	388.9	151.9	1.6
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	270.7	396.7	151.6	262.9	389.7	152.2	261.7	388.1	151.6	0.0
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	261.3	394.8	149.6	251.7	386.3	150.9	251.1	385.4	150.5	-0.9
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	261.3	397.9	150.3	251.7	383.6	149.8	251.1	383.6	149.8	0.5
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	261.3	392.2	148.7	251.7	383.8	149.9	251.1	382.8	149.5	-0.8
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	270.7	373.1	142.5	262.9	366.1	143.0	261.7	364.5	142.4	0.1
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	261.3	368.7	139.6	251.7	360.4	140.8	251.1	359.4	140.4	-0.8
2	91001LINE	NORWALK	FLAX HIL	1	256	270.7	346.2	132.0	262.9	338.5	132.2	261.7	337.1	131.7	0.3
3	91001LINE	NORWALK	FLAX HIL	1	256	261.3	339.0	128.2	251.7	329.6	128.7	251.1	328.8	128.4	-0.2
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	270.7	325.8	124.0	262.9	318.1	124.3	261.7	316.8	123.7	0.3
2	1130LINE	NORWALK	FLAX HIL	1	256	270.7	325.6	124.1	262.9	317.9	124.2	261.7	316.6	123.7	0.4
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				262.9	314.9	123.0	261.7	313.7	122.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	270.7	325.1	123.7	262.9	313.7	122.5	261.7	313.5	122.5	1.2
2	1430LINE	NORWALK	FLAX HIL	1	256	270.7	320.4	121.9	262.9	312.5	122.1	261.7	311.2	121.6	0.3
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	261.3	318.6	120.3	251.7	309.4	120.9	251.1	308.6	120.5	-0.2
3	1130LINE	NORWALK	FLAX HIL	1	256	261.3	317.7	120.1	251.7	308.4	120.5	251.1	307.7	120.2	-0.1
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	270.7	316.3	120.5	262.9	308.7	120.6	261.7	307.4	120.1	0.4
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	270.7	315.8	120.3	262.9	307.4	120.1	261.7	306.1	119.6	0.7
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	270.7	315.0	119.9	262.9	307.3	120.1	261.7	306.0	119.5	0.4
2	1890LINE	NORWALK	FLAX HIL	1	256	270.7	315.1	120.0	262.9	306.7	119.8	261.7	305.4	119.3	0.7
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	270.7	315.0	120.0	262.9	306.7	119.8	261.7	305.4	119.3	0.7
2	1416LINE	NORWALK	FLAX HIL	1	256	270.7	314.6	119.8	262.9	306.1	119.6	261.7	304.8	119.1	0.7
3	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				251.7	304.3	118.9	251.1	303.7	118.6	
3	1430LINE	NORWALK	FLAX HIL	1	256	261.3	313.1	118.2	251.7	304.0	118.7	251.1	303.2	118.4	-0.2
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	261.3	308.4	116.6	251.7	299.2	116.9	251.1	298.5	116.6	0.0
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	261.3	308.9	116.6	251.7	299.1	116.8	251.1	298.3	116.5	0.1
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	261.3	308.1	116.3	251.7	298.8	116.7	251.1	298.0	116.4	-0.1
3	1890LINE	NORWALK	FLAX HIL	1	256	261.3	308.2	116.4	251.7	298.4	116.5	251.1	297.6	116.2	0.2
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	261.3	308.2	116.4	251.7	298.4	116.5	251.1	297.6	116.2	0.2
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	261.3	311.5	117.4	251.7	296.8	115.9	251.1	296.7	115.9	1.5
3	1416LINE	NORWALK	FLAX HIL	1	256	261.3	306.7	115.9	251.7	296.8	116.0	251.1	296.1	115.7	0.2
2	DARIEN1T	NORWALK	FLAX HIL	1	256	270.7	304.2	115.8	262.9	296.8	115.9	261.7	295.5	115.4	0.4
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	270.7	301.1	114.6	262.9	293.5	114.7	261.7	292.2	114.2	0.4
2	1977LINENEW	NORWALK	FLAX HIL	1	256	270.7	300.4	114.4	262.9	292.8	114.4	261.7	291.6	113.9	0.5
2	387+AUTOS	NORWALK	FLAX HIL	1	256	270.7	297.0	113.4							
3	DARIEN1T	NORWALK	FLAX HIL	1	256	261.3	296.4	112.0	251.7	287.4	112.3	251.1	286.7	112.0	0.0
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	261.3	293.2	110.7	251.7	284.1	111.0	251.1	283.4	110.7	0.0
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	270.7	292.0	111.1	262.9	283.9	110.9	261.7	282.7	110.4	0.7
2	312+393LNS	NORWALK	FLAX HIL	1	256	270.7	289.4	110.2	262.9	283.9	110.9	261.7	282.7	110.4	-0.2
2	312+393REAC	NORWALK	FLAX HIL	1	256	270.7	289.4	110.2	262.9	283.9	110.9	261.7	282.7	110.4	-0.2
2	312LINE	NORWALK	FLAX HIL	1	256	270.7	289.4	110.2	262.9	283.9	110.9	261.7	282.7	110.4	-0.2
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	270.7	289.3	110.2	262.9	283.8	110.9	261.7	282.6	110.4	-0.2
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	270.7	289.3	110.2	262.9	283.8	110.9	261.7	282.6	110.4	-0.2
3	1977LINENEW	NORWALK	FLAX HIL	1	256	261.3	292.5	110.5	251.7	283.5	110.7	251.1	282.7	110.4	0.1
2	387LINE	NORWALK	FLAX HIL	1	256				262.9	285.4	111.5	261.7	280.8	109.7	
2	393LINE	NORWALK	FLAX HIL	1	256	270.7	287.4	109.4	262.9	281.8	110.1	261.7	280.5	109.6	-0.2
2	1460-387DCT	NORWALK	FLAX HIL	1	256	270.7	297.6	113.7	262.9	281.1	109.8	261.7	278.8	108.9	4.8
2	SCOVK8TSTK	NORWALK	FLAX HIL	1	256	270.7	264.4	100.6	262.9	279.0	109.0	261.7	277.6	108.4	-7.8
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	270.7	278.2	106.0	262.9	277.5	108.4	261.7	276.5	108.0	-2.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
3	387+AUTOS	NORWALK	FLAX HIL	1	256	261.3	285.4	107.9							
2	SINGAUT	NORWALK	FLAX HIL	1	256	270.7	288.4	109.6	262.9	276.9	108.2	261.7	275.4	107.6	2.0
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	261.3	284.2	107.3	251.7	274.7	107.3	251.1	274.0	107.0	0.3
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	270.7	281.6	107.1	262.9	272.8	106.6	261.7	271.5	106.0	1.1
2	SCOVRRK5TSTK	NORWALK	FLAX HIL	1	256	270.7	277.6	105.8							
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	270.7	279.7	106.4	262.9	271.8	106.2	261.7	270.7	105.7	0.7
3	NMSTBKREAC	NORWALK	FLAX HIL	1	256	261.3	277.2	104.7	251.7	269.7	105.4	251.1	269.0	105.1	-0.4
3	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	261.3	277.2	104.7	251.7	269.7	105.4	251.1	269.0	105.1	-0.4
3	LONGMT5TSTK	NORWALK	FLAX HIL	1	256	261.3	276.9	104.9							
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	270.7	276.6	105.2	262.9	269.5	105.3	261.7	268.3	104.8	0.4
3	398LINE	NORWALK	FLAX HIL	1	256	261.3	288.6	108.9	251.7	267.6	104.6	251.1	268.1	104.7	4.2
3	398LREAC	NORWALK	FLAX HIL	1	256	261.3	288.6	108.9	251.7	267.6	104.6	251.1	268.1	104.7	4.2
3	PLUMNOR	NORWALK	FLAX HIL	1	256	261.3	277.4	104.7							
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	270.7	276.9	105.3	262.9	268.8	105.0	261.7	267.7	104.6	0.7
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	270.7	276.9	105.3	262.9	268.8	105.0	261.7	267.7	104.6	0.7
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	270.7	276.9	105.2	262.9	268.8	105.0	261.7	267.7	104.6	0.6
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	270.7	277.3	105.4	262.9	268.6	104.9	261.7	267.6	104.5	0.9
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	270.7	277.3	105.4	262.9	268.6	104.9	261.7	267.6	104.5	0.9
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	270.7	276.8	105.3	262.9	268.5	104.9	261.7	267.4	104.5	0.8
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	270.7	276.8	105.3	262.9	268.5	104.9	261.7	267.4	104.5	0.8
2	STEVENSNSTK	NORWALK	FLAX HIL	1	256	270.7	277.2	105.3	262.9	268.5	104.9	261.7	267.4	104.5	0.8
2	MIXAVE1	NORWALK	FLAX HIL	1	256	270.7	276.1	105.1	262.9	268.6	104.9	261.7	267.5	104.5	0.6
3	312+393LNS	NORWALK	FLAX HIL	1	256	261.3	275.9	104.2	251.7	268.4	104.9	251.1	267.5	104.5	-0.3
3	312+393REAC	NORWALK	FLAX HIL	1	256	261.3	275.9	104.2	251.7	268.5	104.9	251.1	267.5	104.5	-0.3
3	312LINE	NORWALK	FLAX HIL	1	256	261.3	275.9	104.2	251.7	268.4	104.9	251.1	267.5	104.5	-0.3
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	270.7	274.7	104.5	262.9	268.6	104.9	261.7	267.4	104.4	0.1
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	270.7	276.0	105.0	262.9	268.2	104.7	261.7	267.0	104.3	0.7
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	270.7	275.2	104.6	262.9	267.8	104.6	261.7	266.6	104.1	0.5
2	1640-1690DCT	NORWALK	FLAX HIL	1	256	270.7	273.6	104.1							
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	270.7	273.1	104.0							
2	362ELINE	NORWALK	FLAX HIL	1	256	270.7	273.0	104.0							
3	387LINE	NORWALK	FLAX HIL	1	256				251.7	267.4	104.5	251.1	265.6	103.8	
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	270.7	274.7	104.4	262.9	266.9	104.3	261.7	265.7	103.8	0.6
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	270.7	274.2	104.3	262.9	266.9	104.3	261.7	265.8	103.8	0.5
2	COLONY1T	NORWALK	FLAX HIL	1	256	270.7	274.7	104.5	262.9	266.8	104.2	261.7	265.7	103.8	0.7
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	270.7	275.1	104.6	262.9	266.7	104.2	261.7	265.6	103.7	0.9
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	270.7	274.8	104.5	262.9	266.7	104.2	261.7	265.6	103.7	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	DEVAUT	NORWALK	FLAX HIL	1	256	270.7	276.4	105.0	262.9	266.5	104.1	261.7	265.4	103.7	1.3
2	ESHR-XFR	NORWALK	FLAX HIL	1	256				262.9	266.6	104.1	261.7	265.5	103.7	
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	270.7	275.2	104.6	262.9	266.3	104.0	261.7	265.1	103.6	1.0
2	SACKETST1	NORWALK	FLAX HIL	1	256	270.7	273.2	103.9	262.9	266.3	104.0	261.7	265.2	103.6	0.3
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		262.9	266.3	104.0	261.7	265.1	103.6	
3	393LINE	NORWALK	FLAX HIL	1	256	261.3	273.6	103.3	251.7	265.8	103.8	251.1	265.1	103.6	-0.3
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	270.7	275.0	104.6	262.9	266.0	103.9	261.7	264.9	103.5	1.1
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	270.7	274.7	104.5	262.9	266.0	103.9	261.7	264.9	103.5	1.0
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	270.7	274.7	104.5	262.9	266.0	103.9	261.7	264.9	103.5	1.0
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	270.7	273.6	104.2	262.9	266.0	103.9	261.7	264.9	103.5	0.7
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	270.7	273.9	104.2	262.9	266.1	103.9	261.7	265.0	103.5	0.7
2	1500LINE	NORWALK	FLAX HIL	1	256	270.7	273.9	104.2	262.9	266.0	103.9	261.7	264.9	103.5	0.7
2	1605LINE	NORWALK	FLAX HIL	1	256	270.7	273.9	104.2	262.9	266.0	103.9	261.7	264.9	103.5	0.7
2	352LINE	NORWALK	FLAX HIL	1	256	270.7	272.6	103.9	262.9	265.9	103.9	261.7	264.9	103.5	0.4
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	270.7	273.8	104.1	262.9	265.9	103.9	261.7	264.8	103.4	0.7
2	1505LINE	NORWALK	FLAX HIL	1	256	270.7	273.7	104.1	262.9	265.9	103.9	261.7	264.8	103.4	0.7
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	270.7	273.8	104.1	262.9	265.9	103.9	261.7	264.7	103.4	0.7
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	270.7	273.6	104.1	262.9	265.9	103.9	261.7	264.8	103.4	0.7
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	270.7	272.8	103.7	262.9	265.9	103.9	261.7	264.8	103.4	0.3
2	318LINE	NORWALK	FLAX HIL	1	256	270.7	276.9	105.5	262.9	265.6	103.8	261.7	264.8	103.4	2.1
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	270.7	276.7	105.4	262.9	265.4	103.7	261.7	264.6	103.4	2.0
3	1460-387DCT	NORWALK	FLAX HIL	1	256	261.3	286.0	108.2	251.7	266.1	104.0	251.1	264.3	103.3	4.9
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	270.7	275.8	105.2	262.9	265.9	103.9	261.7	264.4	103.3	1.9
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	270.7	274.1	104.2	262.9	265.6	103.8	261.7	264.5	103.3	0.9
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	270.7	273.4	104.0	262.9	265.6	103.7	261.7	264.4	103.3	0.7
2	88005ALINE	NORWALK	FLAX HIL	1	256	270.7	273.1	103.9	262.9	265.5	103.7	261.7	264.4	103.3	0.6
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	270.7	273.1	103.9	262.9	265.5	103.7	261.7	264.4	103.3	0.6
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	270.7	272.2	103.5	262.9	265.5	103.7	261.7	264.4	103.3	0.2
2	JUNEST1	NORWALK	FLAX HIL	1	256	270.7	273.9	104.2	262.9	265.4	103.7	261.7	264.3	103.2	1.0
2	1690LINE	NORWALK	FLAX HIL	1	256	270.7	273.4	104.0	262.9	265.4	103.7	261.7	264.3	103.2	0.8
2	1355LINE	NORWALK	FLAX HIL	1	256	270.7	273.2	103.9	262.9	265.4	103.7	261.7	264.3	103.2	0.7
2	BROADWYST1	NORWALK	FLAX HIL	1	256	270.7	272.7	103.7	262.9	265.3	103.7	261.7	264.2	103.2	0.5
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	270.7	273.2	103.9	262.9	265.3	103.6	261.7	264.2	103.2	0.7
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	270.7	273.1	103.9	262.9	265.2	103.6	261.7	264.1	103.2	0.7
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	270.7	273.2	103.9	262.9	265.3	103.6	261.7	264.2	103.2	0.7
2	GRNDAV5TSTK	NORWALK	FLAX HIL	1	256	270.7	271.6	103.3	262.9	265.3	103.6	261.7	264.2	103.2	0.1
2	GRNDAV6TSTK	NORWALK	FLAX HIL	1	256	270.7	271.6	103.3	262.9	265.3	103.6	261.7	264.2	103.2	0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	270.7	273.7	104.0	262.9	265.1	103.6	261.7	264.0	103.1	0.9
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	270.7	273.0	103.8	262.9	265.1	103.6	261.7	264.0	103.1	0.7
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	270.7	272.0	103.5	262.9	265.2	103.6	261.7	264.0	103.1	0.4
2	1770LINE	NORWALK	FLAX HIL	1	256	270.7	273.4	104.0	262.9	265.0	103.5	261.7	263.9	103.1	0.9
2	PLUMTREE25T	NORWALK	FLAX HIL	1	256	270.7	273.3	104.0	262.9	265.0	103.5	261.7	263.9	103.1	0.9
2	PLUMTREE28T	NORWALK	FLAX HIL	1	256	270.7	273.6	104.0	262.9	265.0	103.5	261.7	263.9	103.1	0.9
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	270.7	273.4	103.9	262.9	264.9	103.5	261.7	263.8	103.1	0.8
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	270.7	272.9	103.8	262.9	265.1	103.5	261.7	263.9	103.1	0.7
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	270.7	272.6	103.7	262.9	265.0	103.5	261.7	263.9	103.1	0.6
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	270.7	272.7	103.7	262.9	265.0	103.5	261.7	263.9	103.1	0.6
2	88006ALINE	NORWALK	FLAX HIL	1	256	270.7	272.4	103.6	262.9	265.1	103.5	261.7	263.9	103.1	0.5
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	270.7	272.4	103.6	262.9	265.1	103.5	261.7	263.9	103.1	0.5
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	270.7	272.8	103.8	262.9	264.8	103.5	261.7	263.7	103.0	0.8
2	1820LINE	NORWALK	FLAX HIL	1	256	270.7	272.9	103.8	262.9	264.9	103.5	261.7	263.8	103.0	0.8
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	270.7	272.8	103.7	262.9	264.9	103.5	261.7	263.7	103.0	0.7
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	270.7	272.7	103.7	262.9	264.9	103.5	261.7	263.8	103.0	0.7
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	270.7	272.7	103.7	262.9	264.9	103.5	261.7	263.8	103.0	0.7
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	270.7	272.8	103.7	262.9	264.8	103.5	261.7	263.7	103.0	0.7
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	270.7	272.3	103.5	262.9	264.9	103.5	261.7	263.8	103.0	0.5
2	1780LINE	NORWALK	FLAX HIL	1	256	270.7	272.9	103.8	262.9	264.8	103.4	261.7	263.7	103.0	0.8
2	1790LINE	NORWALK	FLAX HIL	1	256	270.7	272.9	103.8	262.9	264.8	103.4	261.7	263.7	103.0	0.8
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	270.7	272.6	103.7	262.9	264.8	103.4	261.7	263.6	103.0	0.7
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	270.7	272.7	103.7	262.9	264.7	103.4	261.7	263.6	103.0	0.7
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	270.7	272.6	103.6	262.9	264.7	103.4	261.7	263.6	103.0	0.6
2	GRNDAV4TSTK	NORWALK	FLAX HIL	1	256	270.7	271.5	103.3	262.9	264.8	103.4	261.7	263.7	103.0	0.3
2	GRNDAV7TSTK	NORWALK	FLAX HIL	1	256	270.7	271.5	103.3	262.9	264.8	103.4	261.7	263.7	103.0	0.3
2	1575LINE	NORWALK	FLAX HIL	1	256	270.7	272.6	103.7	262.9	264.6	103.4	261.7	263.5	102.9	0.8
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	270.7	272.5	103.7	262.9	264.6	103.4	261.7	263.5	102.9	0.8
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	270.7	272.6	103.7	262.9	264.6	103.4	261.7	263.5	102.9	0.8
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	270.7	272.6	103.6	262.9	264.6	103.4	261.7	263.5	102.9	0.7
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	270.7	272.5	103.6	262.9	264.6	103.4	261.7	263.5	102.9	0.7
2	100+400LINES	NORWALK	FLAX HIL	1	256	270.7	272.3	103.6	262.9	264.5	103.3	261.7	263.4	102.9	0.7
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	270.7	272.3	103.6	262.9	264.5	103.3	261.7	263.3	102.9	0.7
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	270.7	271.5	103.3	262.9	264.5	103.3	261.7	263.4	102.9	0.4
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	270.7	271.5	103.3	262.9	264.5	103.3	261.7	263.4	102.9	0.4
2	362LINE	NORWALK	FLAX HIL	1	256				262.9	264.3	103.2	261.7	263.4	102.9	
2	HADDAM1T	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9							

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	LOBPTENGF	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9							
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	270.7	272.9	103.8	262.9	264.3	103.3	261.7	263.3	102.8	1.0
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	270.7	272.3	103.6	262.9	264.4	103.3	261.7	263.2	102.8	0.8
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	270.7	272.3	103.6	262.9	264.4	103.3	261.7	263.2	102.8	0.8
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	270.7	272.2	103.5	262.9	264.4	103.3	261.7	263.3	102.8	0.7
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	264.4	103.3	261.7	263.2	102.8	0.6
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	264.4	103.3	261.7	263.2	102.8	0.6
2	1560LINE	NORWALK	FLAX HIL	1	256	270.7	271.8	103.3	262.9	264.5	103.3	261.7	263.3	102.8	0.5
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	270.7	272.7	103.8	262.9	264.2	103.2	261.7	263.2	102.8	1.0
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	270.7	272.4	103.6	262.9	264.3	103.2	261.7	263.2	102.8	0.8
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	270.7	272.0	103.5	262.9	264.2	103.2	261.7	263.1	102.8	0.7
2	1235LINE	NORWALK	FLAX HIL	1	256	270.7	272.1	103.5	262.9	264.2	103.2	261.7	263.1	102.8	0.7
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	270.7	271.3	103.2	262.9	264.2	103.2	261.7	263.1	102.8	0.4
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	270.7	271.3	103.2	262.9	264.2	103.2	261.7	263.1	102.8	0.4
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	261.3	275.2	103.9	251.7	263.8	103.1	251.1	263.1	102.8	1.1
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	270.7	273.2	103.7	262.9	264.1	103.1	261.7	263.2	102.8	0.9
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	270.7	273.2	103.7	262.9	264.1	103.1	261.7	263.2	102.8	0.9
2	89006BLINE	NORWALK	FLAX HIL	1	256	270.7	272.0	103.4	262.9	264.1	103.2	261.7	263.0	102.7	0.7
2	NWALLING1T	NORWALK	FLAX HIL	1	256	270.7	272.0	103.4	262.9	264.1	103.2	261.7	263.0	102.7	0.7
2	88003ALINE	NORWALK	FLAX HIL	1	256	270.7	271.3	103.2	262.9	264.1	103.2	261.7	263.0	102.7	0.5
2	89003BLINE	NORWALK	FLAX HIL	1	256	270.7	271.3	103.2	262.9	264.1	103.2	261.7	263.0	102.7	0.5
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	264.0	103.1	261.7	262.9	102.7	0.7
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	270.7	271.9	103.4	262.9	264.0	103.1	261.7	262.9	102.7	0.7
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	264.0	103.1	261.7	262.8	102.7	0.7
2	1000LINE	NORWALK	FLAX HIL	1	256	270.7	271.8	103.3	262.9	263.9	103.1	261.7	262.8	102.7	0.6
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	270.7	271.2	103.1	262.9	263.8	103.1	261.7	262.7	102.6	0.5
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	270.7	271.2	103.1	262.9	263.8	103.1	261.7	262.7	102.6	0.5
2	GRNDV1TSTK	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.8	103.1	261.7	262.7	102.6	0.5
2	GRNDV3TSTK	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.9	103.1	261.7	262.7	102.6	0.5
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	263.7	103.0	261.7	262.6	102.6	0.8
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	270.7	271.9	103.4	262.9	263.7	103.0	261.7	262.6	102.6	0.8
2	694LINE	NORWALK	FLAX HIL	1	256	270.7	271.7	103.3	262.9	263.8	103.0	261.7	262.7	102.6	0.7
2	8100LINE	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.8	103.0	261.7	262.6	102.6	0.5
2	8200LINE	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.8	103.0	261.7	262.6	102.6	0.5
2	ESHORE12TSTK	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.8	103.0	261.7	262.6	102.6	0.5
2	8400LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	103.0	262.9	263.7	103.0	261.7	262.6	102.6	0.4
3	SINGAUT	NORWALK	FLAX HIL	1	256	261.3	277.2	104.5	251.7	263.2	102.8	251.1	262.7	102.6	1.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
3	8100-8200DCT	NORWALK	FLAX HIL	1	256	261.3	266.8	100.7	251.7	263.3	102.8	251.1	262.7	102.6	-1.9
2	1250LINE	NORWALK	FLAX HIL	1	256	270.7	271.5	103.2	262.9	263.6	103.0	261.7	262.5	102.5	0.7
2	400LINE	NORWALK	FLAX HIL	1	256	270.7	271.5	103.2	262.9	263.6	103.0	261.7	262.5	102.5	0.7
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	270.7	274.0	104.2	262.9	263.3	102.9	261.7	262.3	102.5	1.7
2	1610LINE	NORWALK	FLAX HIL	1	256	270.7	272.1	103.5	262.9	263.5	102.9	261.7	262.4	102.5	1.0
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	270.7	270.9	103.0	262.9	263.5	102.9	261.7	262.3	102.5	0.5
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	1280LINE	NORWALK	FLAX HIL	1	256	270.7	271.2	103.1	262.9	263.4	102.9	261.7	262.3	102.4	0.7
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.4	102.9	261.7	262.2	102.4	0.7
2	1607LINE	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	1730BLINE	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	381LINE	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	381LREAC	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	667-690LINE	NORWALK	FLAX HIL	1	256	270.7	271.2	103.1	262.9	263.4	102.9	261.7	262.2	102.4	0.7
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.3	102.9	261.7	262.2	102.4	0.7
2	310LINE	NORWALK	FLAX HIL	1	256	270.7	271.5	103.3	262.9	263.2	102.8	261.7	262.1	102.4	0.9
2	1445LINE	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.2	102.8	261.7	262.1	102.4	0.7
2	1585LINE	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.2	102.8	261.7	262.1	102.4	0.7
2	1640LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.2	102.8	261.7	262.1	102.4	0.6
2	8804ALINE	NORWALK	FLAX HIL	1	256	270.7	270.9	103.0	262.9	263.2	102.8	261.7	262.1	102.4	0.6
2	8904BLINE	NORWALK	FLAX HIL	1	256	270.7	270.9	103.0	262.9	263.2	102.8	261.7	262.1	102.4	0.6
2	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256	270.7	270.7	103.0	262.9	263.3	102.8	261.7	262.2	102.4	0.6
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.2	102.8	261.7	262.1	102.4	0.6
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	270.7	271.6	103.3	262.9	263.1	102.8	261.7	262.0	102.3	1.0
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	270.7	271.6	103.3	262.9	263.1	102.8	261.7	262.0	102.3	1.0
2	1272LINE	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	263.1	102.8	261.7	262.0	102.3	0.8
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.1	102.8	261.7	262.0	102.3	0.7
2	1685LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.1	102.8	261.7	261.9	102.3	0.6
2	84004LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.0	102.8	261.7	261.9	102.3	0.6
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.1	102.8	261.7	262.0	102.3	0.6
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.1	102.8	261.7	262.0	102.3	0.6
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC		262.9	263.1	102.8	261.7	261.9	102.3	
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	270.7	271.4	103.2	262.9	262.9	102.7	261.7	261.8	102.3	0.9
2	310-383DCT	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	263.0	102.7	261.7	261.8	102.3	0.8
2	1270LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	103.0	262.9	262.9	102.7	261.7	261.8	102.3	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1337LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	103.0	262.9	263.0	102.7	261.7	261.8	102.3	0.7
2	1440LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.0	102.7	261.7	261.9	102.3	0.7
2	1443LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	262.9	102.7	261.7	261.8	102.3	0.7
2	1668LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	103.0	262.9	262.9	102.7	261.7	261.8	102.3	0.7
2	1721LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.0	102.7	261.7	261.8	102.3	0.7
2	1759LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	262.9	102.7	261.7	261.8	102.3	0.7
2	1870LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.0	102.7	261.7	261.9	102.3	0.7
2	88003ALINE-1	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.0	102.7	261.7	261.9	102.3	0.7
2	89003BLINE-1	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	263.0	102.7	261.7	261.9	102.3	0.7
2	1060-1270DCT	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1060LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1070LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1090LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1580LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.0	102.7	261.7	261.8	102.3	0.6
2	1594LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1675LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1740LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1753LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	1792LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	8300LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	263.0	102.7	261.7	261.9	102.3	0.6
2	8500LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.0	102.7	261.7	261.8	102.3	0.6
2	8700LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	9502LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.0	102.7	261.7	261.8	102.3	0.6
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	263.0	102.7	261.7	261.8	102.3	0.6
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.8	102.3	0.6
2	329LINE	NORWALK	FLAX HIL	1	256	270.7	271.2	103.4	262.9	262.7	102.6	261.7	261.8	102.3	1.1
2	PLUMNOR	NORWALK	FLAX HIL	1	256	270.7	269.0	102.3							
2	1191LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	262.8	102.7	261.7	261.7	102.2	0.8
2	1765LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	103.0	262.9	262.9	102.7	261.7	261.8	102.2	0.8
2	100LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1100LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1165LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1200LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1310LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1394LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1410LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1440-1450DCT	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1450LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1460LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1466LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1490LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1537LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1588LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1655LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1670-1771DCT	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1670LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1704LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1751LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1756LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1763LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1766LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1767LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1769LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1771LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1775LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1779LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1785LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1786LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	1788LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1825LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1830LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1835LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1900LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	1921LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	689LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	693LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	9500LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	LOSSNHAV	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	LOSSNOR1	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	LOSSNOR2	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.7	261.7	261.7	102.2	0.7
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	270.7	270.7	102.9	262.9	262.9	102.7	261.7	261.7	102.2	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	EDEVDEV2	NORWALK	FLAX HIL	1	256	270.7	269.9	102.8	262.9	262.8	102.7	261.7	261.7	102.2	0.6
2	PEQUON42TSTK	NORWALK	FLAX HIL	1	256	270.7	267.1	101.8	262.9	263.0	102.7	261.7	261.5	102.2	-0.4
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				262.9	262.9	102.7	261.7	261.7	102.2	
2	SNG-PEQTAP	NORWALK	FLAX HIL	1	256				262.9	262.9	102.7	261.7	261.7	102.2	
2	1208LINE	NORWALK	FLAX HIL	1	256	270.7	272.0	103.5	262.9	262.6	102.6	261.7	261.5	102.2	1.3
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	270.7	272.0	103.5	262.9	262.6	102.6	261.7	261.5	102.2	1.3
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	270.7	272.0	103.5	262.9	262.6	102.6	261.7	261.5	102.2	1.3
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	270.7	271.4	103.2	262.9	262.6	102.6	261.7	261.5	102.2	1.0
2	1760LINE	NORWALK	FLAX HIL	1	256	270.7	271.3	103.1	262.9	262.7	102.6	261.7	261.6	102.2	0.9
2	1887LINE	NORWALK	FLAX HIL	1	256	270.7	271.2	103.1	262.9	262.8	102.6	261.7	261.7	102.2	0.9
2	1990LINE	NORWALK	FLAX HIL	1	256	270.7	271.0	103.1	262.9	262.6	102.6	261.7	261.6	102.2	0.9
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	262.6	102.6	261.7	261.5	102.2	0.9
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	262.7	102.6	261.7	261.6	102.2	0.9
2	1261LINE	NORWALK	FLAX HIL	1	256	270.7	270.9	103.0	262.9	262.7	102.6	261.7	261.6	102.2	0.8
2	1620SLINE	NORWALK	FLAX HIL	1	256	270.7	270.9	103.0	262.9	262.7	102.6	261.7	261.5	102.2	0.8
2	1720LINE	NORWALK	FLAX HIL	1	256	270.7	271.2	103.0	262.9	262.6	102.6	261.7	261.5	102.2	0.8
2	1050LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.7	102.6	261.7	261.6	102.2	0.7
2	1060-1165DCT	NORWALK	FLAX HIL	1	256	270.7	270.4	102.9	262.9	262.7	102.6	261.7	261.5	102.2	0.7
2	1163LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.7	102.6	261.7	261.6	102.2	0.7
2	1206LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1207LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1550LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.5	102.2	0.7
2	1572LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.6	102.2	0.7
2	1620N-1975DC	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.5	102.2	0.7
2	1620NLINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1625LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.6	102.2	0.7
2	1772LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1777-1779DCT	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.5	102.2	0.7
2	1777LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.7	102.6	261.7	261.5	102.2	0.7
2	1800-1860LNS	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1810LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	1975LINE	NORWALK	FLAX HIL	1	256	270.7	270.6	102.9	262.9	262.8	102.6	261.7	261.6	102.2	0.7
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.6	102.6	261.7	261.5	102.2	0.7
2	BRANFORD2T	NORWALK	FLAX HIL	1	256	270.7	270.3	102.8	262.9	262.7	102.6	261.7	261.6	102.2	0.6
2	HADDAMAT	NORWALK	FLAX HIL	1	256				262.9	262.7	102.6	261.7	261.5	102.2	
2	8600LINE	NORWALK	FLAX HIL	1	256	270.7	270.7	103.0	262.9	262.6	102.6	261.7	261.5	102.1	0.9
2	1910LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.6	102.6	261.7	261.5	102.1	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1950LINE	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.6	102.6	261.7	261.5	102.1	0.8
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.5	102.6	261.7	261.4	102.1	0.8
2	1515LINE	NORWALK	FLAX HIL	1	256	270.7	270.4	102.8	262.9	262.6	102.6	261.7	261.4	102.1	0.7
2	1752LINE	NORWALK	FLAX HIL	1	256	270.7	270.4	102.8	262.9	262.6	102.6	261.7	261.5	102.1	0.7
2	1570-1580DCT	NORWALK	FLAX HIL	1	256	270.7	269.9	102.7	262.9	262.5	102.6	261.7	261.4	102.1	0.6
2	ORANG-ESHR	NORWALK	FLAX HIL	1	256				262.9	262.6	102.6	261.7	261.5	102.1	
2	329-352DCT	NORWALK	FLAX HIL	1	256	270.7	270.0	103.0	262.9	262.4	102.5	261.7	261.4	102.1	0.9
2	352+AUTO	NORWALK	FLAX HIL	1	256	270.7	270.0	103.0	262.9	262.3	102.5	261.7	261.4	102.1	0.9
2	1080-1280DCT	NORWALK	FLAX HIL	1	256	270.7	270.3	102.8	262.9	262.5	102.5	261.7	261.4	102.1	0.7
2	1783LINE	NORWALK	FLAX HIL	1	256	270.7	270.4	102.8	262.9	262.5	102.5	261.7	261.4	102.1	0.7
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	270.7	270.5	102.8	262.9	262.4	102.5	261.7	261.3	102.1	0.7
2	89005BLINE	NORWALK	FLAX HIL	1	256	270.7	270.4	102.8	262.9	262.4	102.5	261.7	261.3	102.1	0.7
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	270.7	270.5	102.8	262.9	262.4	102.5	261.7	261.3	102.1	0.7
2	1207-1775DCT	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.5	102.5	261.7	261.3	102.1	0.6
2	1570LINE	NORWALK	FLAX HIL	1	256	270.7	270.0	102.7	262.9	262.4	102.5	261.7	261.3	102.1	0.6
2	1784LINE	NORWALK	FLAX HIL	1	256	270.7	269.9	102.7	262.9	262.4	102.5	261.7	261.3	102.1	0.6
2	DEVON7TSTK	NORWALK	FLAX HIL	1	256	270.7	270.0	102.7	262.9	262.4	102.5	261.7	261.3	102.1	0.6
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	270.7	271.0	103.4	262.9	262.0	102.3	261.7	261.5	102.1	1.3
2	1508LINE	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	262.3	102.5	261.7	261.2	102.0	1.1
2	1751-1777DCT	NORWALK	FLAX HIL	1	256	270.7	270.2	102.7	262.9	262.4	102.5	261.7	261.2	102.0	0.7
2	1773LINE	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.3	102.5	261.7	261.2	102.0	0.7
2	1821LINE	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.3	102.5	261.7	261.1	102.0	0.7
2	1836LINE	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.3	102.5	261.7	261.1	102.0	0.7
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	270.7	271.8	103.4	262.9	262.3	102.4	261.7	261.2	102.0	1.4
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	270.7	271.1	103.1	262.9	262.1	102.4	261.7	261.1	102.0	1.1
2	FROSTBR21T	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.1	102.4	261.7	261.0	102.0	0.9
2	500LINE	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.3	102.4	261.7	261.1	102.0	0.7
2	1732LINE	NORWALK	FLAX HIL	1	256	270.7	269.9	102.6	262.9	262.2	102.4	261.7	261.0	102.0	0.6
3	SCOVKR8TSTK	NORWALK	FLAX HIL	1					251.7	262.6	102.6	251.1	260.8	101.9	
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	262.1	102.4	261.7	261.0	101.9	1.0
2	301-302LNS	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	262.1	102.4	261.7	261.0	101.9	0.8
2	1726LINE	NORWALK	FLAX HIL	1	256	270.7	269.9	102.6	262.9	262.1	102.4	261.7	261.0	101.9	0.7
2	383LINE	NORWALK	FLAX HIL	1	256	270.7	269.7	102.6	262.9	262.1	102.4	261.7	261.0	101.9	0.7
2	1545LINE	NORWALK	FLAX HIL	1	256	270.7	269.3	102.4	262.9	262.0	102.4	261.7	260.9	101.9	0.5
2	1342LINE	NORWALK	FLAX HIL	1	256	270.7	271.7	103.4	262.9	262.0	102.3	261.7	260.9	101.9	1.5
2	BOKUM2T	NORWALK	FLAX HIL	1	256	270.7	271.7	103.3	262.9	262.0	102.3	261.7	260.9	101.9	1.4
2	BOKUM3T	NORWALK	FLAX HIL	1	256	270.7	271.7	103.3	262.9	262.0	102.3	261.7	260.9	101.9	1.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1080LINE	NORWALK	FLAX HIL	1	256	270.7	269.8	102.6	262.9	262.0	102.3	261.7	260.8	101.9	0.7
2	1080-1490DCT	NORWALK	FLAX HIL	1	256	270.7	269.7	102.5	262.9	261.9	102.3	261.7	260.8	101.9	0.6
2	NORSING1	NORWALK	FLAX HIL	1	256	270.7	267.1	102.0	262.9	261.8	102.3	261.7	260.8	101.9	0.1
2	1630LINE	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	261.8	102.3	261.7	260.7	101.8	1.2
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	261.8	102.3	261.7	260.7	101.8	1.2
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256	270.7	270.8	103.0	262.9	261.8	102.3	261.7	260.7	101.8	1.2
2	88005ALINE-2	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	261.8	102.3	261.7	260.7	101.8	0.9
2	89005BLINE-2	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	261.8	102.3	261.7	260.7	101.8	0.9
2	DEVSING1	NORWALK	FLAX HIL	1	256	270.7	269.2	102.4	262.9	261.9	102.3	261.7	260.7	101.8	0.6
2	1261-1620SDC	NORWALK	FLAX HIL	1	256	270.7	272.1	103.5	262.9	261.6	102.2	261.7	260.5	101.8	1.7
2	1876LINE	NORWALK	FLAX HIL	1	256	270.7	270.1	102.7	262.9	261.7	102.2	261.7	260.6	101.8	0.9
2	WESTON1T	NORWALK	FLAX HIL	1	256	270.7	269.4	102.3	262.9	261.7	102.2	261.7	260.6	101.8	0.5
2	BOKUM1T	NORWALK	FLAX HIL	1	256				262.9	261.6	102.2	261.7	260.5	101.8	
2	HADDAMBT	NORWALK	FLAX HIL	1	256				262.9	261.6	102.2	261.7	260.5	101.8	
2	376LINE	NORWALK	FLAX HIL	1	256	270.7	272.2	103.6	262.9	261.9	102.3	261.7	260.4	101.7	1.9
2	1618LINE	NORWALK	FLAX HIL	1	256	270.7	269.8	102.6	262.9	261.5	102.2	261.7	260.4	101.7	0.9
2	310-368DCT	NORWALK	FLAX HIL	1	256	270.7	271.3	103.2	262.9	261.3	102.1	261.7	260.1	101.6	1.6
2	1545+SPS	NORWALK	FLAX HIL	1	256	270.7	268.2	102.1	262.9	261.4	102.1	261.7	260.2	101.6	0.5
2	368LINE	NORWALK	FLAX HIL	1	256	270.7	269.9	102.6	262.9	261.2	102.0	261.7	260.0	101.6	1.0
2	1300LINE	NORWALK	FLAX HIL	1	256	270.7	269.0	102.3	262.9	261.2	102.0	261.7	260.0	101.6	0.7
2	ONE1385	NORWALK	FLAX HIL	1	256	270.7	268.9	102.3	262.9	261.2	102.0	261.7	260.1	101.6	0.7
3	1310-1763DCT	NORWALK	FLAX HIL	1	256	261.3	270.4	102.1	251.7	260.7	101.9	251.1	260.1	101.6	0.5
2	1730CLINE	NORWALK	FLAX HIL	1	256	270.7	268.1	102.0	262.9	261.1	102.0	261.7	259.9	101.5	0.5
2	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	270.7	268.1	102.0	262.9	261.1	102.0	261.7	259.9	101.5	0.5
2	1238+1813LNS	NORWALK	FLAX HIL	1	256	270.7	269.1	102.4	262.9	260.8	101.9	261.7	259.8	101.5	0.9
2	SINGERSTK	NORWALK	FLAX HIL	1	256				262.9	261.0	102.0	261.7	259.6	101.4	
2	DEVON23TSTK	NORWALK	FLAX HIL	1	256	270.7	269.0	102.3	262.9	260.8	101.9	261.7	259.6	101.4	0.9
2	DEVON25TSTK	NORWALK	FLAX HIL	1	256	270.7	269.0	102.3	262.9	260.8	101.9	261.7	259.6	101.4	0.9
2	1722LINE	NORWALK	FLAX HIL	1	256	270.7	268.4	102.1	262.9	260.6	101.8	261.7	259.5	101.4	0.7
2	1622LINE	NORWALK	FLAX HIL	1	256	270.7	268.1	102.0	262.9	260.4	101.7	261.7	259.3	101.3	0.7
2	SGTN7TSTK	NORWALK	FLAX HIL	1	256	270.7	270.5	102.9	262.9	259.9	101.5	261.7	259.2	101.3	1.6
3	1565-PLNRDCT	NORWALK	FLAX HIL	1	256	261.3	267.9	101.3							
2	1622-1887DCT	NORWALK	FLAX HIL	1	256	270.7	268.4	102.1	262.9	260.3	101.7	261.7	259.2	101.2	0.9
2	SHEPAUG13A	NORWALK	FLAX HIL	1	256	270.7	268.4	102.1	262.9	260.3	101.7	261.7	259.2	101.2	0.9
2	1813LINE	NORWALK	FLAX HIL	1	256	270.7	268.4	102.1	262.9	260.1	101.6	261.7	259.1	101.2	0.9
2	DEVON3TSTK	NORWALK	FLAX HIL	1	256	270.7	266.0	101.2							
2	347LINE	NORWALK	FLAX HIL	1	256	270.7	267.7	101.8	262.9	260.0	101.6	261.7	258.8	101.1	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	347LREAC	NORWALK	FLAX HIL	1	256	270.7	267.7	101.8	262.9	260.0	101.6	261.7	258.8	101.1	0.7
2	1975-362WDCT	NORWALK	FLAX HIL	1	256	270.7	266.0	101.1							
2	362WLINE	NORWALK	FLAX HIL	1	256	270.7	266.0	101.1							
2	1545-1570DCT	NORWALK	FLAX HIL	1	256	270.7	265.8	101.3	262.9	259.7	101.5	261.7	258.5	101.0	0.3
2	DEVON6TSTK	NORWALK	FLAX HIL	1	256	270.7	265.8	101.3	262.9	259.7	101.5	261.7	258.5	101.0	0.3
2	371-383DCT	NORWALK	FLAX HIL	1	256	270.7	269.3	102.4	262.9	259.7	101.4	261.7	258.5	101.0	1.4
2	1238LINE	NORWALK	FLAX HIL	1	256	270.7	267.9	101.9	262.9	259.7	101.4	261.7	258.6	101.0	0.9
3	318LINE	NORWALK	FLAX HIL	1	256	261.3	267.5	101.0							
2	DEVON26TSTK	NORWALK	FLAX HIL	1	256	270.7	267.2	101.6	262.9	259.5	101.4	261.7	258.3	100.9	0.7
2	LOSSBPT3	NORWALK	FLAX HIL	1	256	270.7	264.6	100.8	262.9	259.7	101.4	261.7	258.2	100.9	-0.1
2	1637LINE	NORWALK	FLAX HIL	1	256	270.7	267.9	101.7	262.9	259.4	101.3	261.7	258.3	100.9	0.8
2	PLUMAUT	NORWALK	FLAX HIL	1	256	270.7	266.7	101.5	262.9	259.4	101.3	261.7	258.3	100.9	0.6
2	310-348DCT	NORWALK	FLAX HIL	1	256				262.9	259.3	101.3	261.7	258.3	100.9	
3	SGTN3TSTK	NORWALK	FLAX HIL	1	256	261.3	267.2	100.9							
2	371LINE	NORWALK	FLAX HIL	1	256	270.7	268.8	102.2	262.9	259.4	101.3	261.7	258.2	100.8	1.4
2	371+AUTO	NORWALK	FLAX HIL	1	256	270.7	268.7	102.2	262.9	259.2	101.2	261.7	258.0	100.8	1.4
2	348N+AUTO	NORWALK	FLAX HIL	1	256	270.7	267.6	101.8	262.9	259.0	101.2	261.7	258.1	100.8	1.0
2	LOSSDEV7	NORWALK	FLAX HIL	1	256	270.7	267.1	101.6	262.9	259.2	101.2	261.7	258.0	100.8	0.8
2	353NLINE	NORWALK	FLAX HIL	1	256	270.7	265.2	100.8							
2	362W-376DCT	NORWALK	FLAX HIL	1	256	270.7	265.1	100.8							
2	HADNKSTBKR	NORWALK	FLAX HIL	1	256	270.7	265.1	100.8							
2	362-376DCT	NORWALK	FLAX HIL	1	256				262.9	259.2	101.2	261.7	257.9	100.7	
2	SGTN1TSTK	NORWALK	FLAX HIL	1	256	270.7	267.5	101.8	262.9	258.8	101.1	261.7	257.9	100.7	1.1
2	1637-1720DCT	NORWALK	FLAX HIL	1	256	270.7	268.2	101.7	262.9	258.8	101.1	261.7	257.8	100.7	1.0
2	348NLINE	NORWALK	FLAX HIL	1	256	270.7	266.8	101.5	262.9	258.7	101.1	261.7	257.8	100.7	0.8
2	1975-348DCT	NORWALK	FLAX HIL	1	256				262.9	258.7	101.1	261.7	257.7	100.7	
2	353N+AUTO	NORWALK	FLAX HIL	1	256	270.7	264.8	100.7							
3	SGTN4TSTK	NORWALK	FLAX HIL	1	256	261.3	266.3	100.7							
3	1770-1887DCT	NORWALK	FLAX HIL	1	256	261.3	268.4	101.2	251.7	258.1	100.8	251.1	257.5	100.6	0.6
3	STONYHILL.1T	NORWALK	FLAX HIL	1	256	261.3	268.4	101.2	251.7	258.1	100.8	251.1	257.5	100.6	0.6
2	1767-353NDCT	NORWALK	FLAX HIL	1	256	270.7	264.6	100.6							
3	TRIANGLE4T	NORWALK	FLAX HIL	1	256	261.3	267.6	100.9	251.7	257.8	100.7	251.1	257.2	100.5	0.4
2	364+AUTO	NORWALK	FLAX HIL	1	256	270.7	267.0	101.5	262.9	257.2	100.5				
2	MONTVSTBKR	NORWALK	FLAX HIL	1	256	270.7	267.0	101.5	262.9	257.2	100.5				
3	1800-1810DCT	NORWALK	FLAX HIL	1	256	261.3	267.6	101.0	251.7	257.6	100.6	251.1	257.0	100.4	0.6
3	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	261.3	267.6	101.0	251.7	257.6	100.6	251.1	257.0	100.4	0.6
3	1163-1550D-2	NORWALK	FLAX HIL	1	256	261.3	267.6	101.0	251.7	257.5	100.6	251.1	256.9	100.3	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
3	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	261.3	267.6	101.0	251.7	257.5	100.6	251.1	256.9	100.3	0.7
3	EDEVDEV1	NORWALK	FLAX HIL	1	256	261.3	269.2	101.6	251.7	257.4	100.5	251.1	256.7	100.3	1.3
2	1470-1720DCT	NORWALK	FLAX HIL	1	256	270.7	267.8	101.6	262.9	256.7	100.3				
2	NORWALKST1	NORWALK	FLAX HIL	1	256	270.7	267.8	101.6	262.9	256.7	100.3				
2	1759-353NDCT	NORWALK	FLAX HIL	1	256	270.7	266.7	101.4	262.9	256.8	100.3				
3	SCOVK5TSTK	NORWALK	FLAX HIL	1	256	261.3	265.7	100.3							
2	1470LINE	NORWALK	FLAX HIL	1	256	270.7	267.5	101.6	262.9	257.3	100.5	261.7	256.4	100.2	1.4
3	MIXAVE1	NORWALK	FLAX HIL	1	256	261.3	266.3	100.5	251.7	257.3	100.5	251.1	256.6	100.2	0.3
3	STEVENSNSTK	NORWALK	FLAX HIL	1	256	261.3	267.5	100.9	251.7	257.1	100.4	251.1	256.4	100.2	0.7
3	1505-1607DCT	NORWALK	FLAX HIL	1	256	261.3	266.8	100.7	251.7	257.0	100.4	251.1	256.4	100.2	0.5
2	1470-1637DCT	NORWALK	FLAX HIL	1	256	270.7	264.3	100.2							
3	1800-1825DCT	NORWALK	FLAX HIL	1	256	261.3	265.5	100.2							
3	COLONY1T	NORWALK	FLAX HIL	1	256	261.3	265.4	100.2							
3	GREENHLL2T	NORWALK	FLAX HIL	1	256	261.3	265.4	100.2							
3	1560-1570DCT	NORWALK	FLAX HIL	1	256	261.3	265.9	100.3	251.7	257.0	100.4	251.1	256.2	100.1	0.2
3	1470-1565DCT	NORWALK	FLAX HIL	1	256	261.3	266.6	100.4	251.7	256.2	100.1				
3	PEACEABLE1T	NORWALK	FLAX HIL	1	256	261.3	266.6	100.4	251.7	256.2	100.1				
2	SCOVK7TSTK	NORWALK	FLAX HIL	1	256	270.7	262.9	100.1							
3	BATESROCK1T	NORWALK	FLAX HIL	1	256	261.3	266.1	100.4	251.7	256.0	100.0				
2	1750LINE	NORWALK	FLAX HIL	1	256	270.7	263.8	100.3	262.9	256.1	100.0				
3	1570-1575DCT	NORWALK	FLAX HIL	1	256	261.3	265.1	100.0							
3	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	261.3	265.0	100.0							
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	185.1	430.8	158.3	175.2	415.1	157.8	176.3	417.5	158.8	-0.5
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	156.8	411.1	151.0	146.9	395.8	150.5	146.1	394.0	149.8	1.2
4	113091001DCT	NWLK HAR	ELYAVE	1	263	156.8	294.2	108.3	146.9	285.0	108.4	146.1	284.8	108.3	0.0
5	113091001DCT	NWLK HAR	ELYAVE	1	263	185.1	293.1	107.8	175.2	283.7	107.9	176.3	284.0	108.0	-0.2
5	91001LINE	NWLK HAR	ELYAVE	1	263	185.1	276.1	101.6	175.2	266.4	101.3	176.3	266.9	101.5	0.1
5	NORWALKST2	NWLK HAR	ELYAVE	1	263	185.1	276.7	101.7	175.2	263.2	100.1	176.3	264.7	100.6	1.1
5	1416-1880DCT	NWLK HAR	ELYAVE	1	263	185.1	275.4	101.2				176.3	264.1	100.4	0.8
5	1880-1977DCT	NWLK HAR	ELYAVE	1	263	185.1	275.0	101.0				176.3	263.8	100.3	0.7
5	GLENBROOK3T	NWLK HAR	ELYAVE	1	263	185.1	272.9	100.3							
5	1880LINE	NWLK HAR	ELYAVE	1	263	185.1	272.7	100.2							
5	1867-1977DCT	NWLK HAR	ELYAVE	1	263	185.1	272.6	100.2							
5	1416-1867DCT	NWLK HAR	ELYAVE	1	263	185.1	272.5	100.1							
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	177.4	328.1	104.3	171.8	317.6	104.5	173.1	317.5	104.4	-0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	192.0	328.4	104.4	187.8	316.8	104.2	186.9	316.8	104.2	0.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	362.6	287.8	58.1	362.3	287.6	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	362.2	287.5	58.1	362.0	287.3	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	361.8	287.2	58.1	361.7	287.1	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	357.3	283.6	58.1	357.3	283.6	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.2	181.2	58.1	228.5	181.3	58.1	228.3	181.2	0.0
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	225.9	179.4	58.1	228.4	181.3	58.1	228.4	181.2	-1.8
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.1	180.3	58.1	228.2	181.1	58.1	228.1	181.0	-0.7
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.1	180.4	58.1	228.0	181.0	58.1	228.0	181.0	-0.6
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	260.1	188.5	79.7	259.5	188.0	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	259.0	187.7	79.6	258.4	187.3	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	257.1	186.3	79.7	256.9	186.1	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	241.0	174.6	79.6	240.9	174.5	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.1	104.9	79.7	145.0	105.0	79.7	144.8	105.0	-0.1
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.5	144.7	103.7	79.7	144.9	105.0	79.7	144.9	105.0	-1.3
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.9	104.3	79.7	144.8	104.9	79.6	144.7	104.9	-0.6
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.9	104.4	79.6	144.7	104.8	79.6	144.7	104.8	-0.4
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.7	139.1	100.8	79.7	139.1	100.8	
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.9	100.6	79.7	139.0	100.7	79.7	138.9	100.6	0.0
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.3	79.6	138.8	100.6	79.6	138.8	100.6	-0.3
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.3	79.7	138.9	100.6	79.6	138.8	100.6	-0.3
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.1	84.3	224.6	135.3	84.2	224.4	135.2	-0.1
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.1	224.6	133.8	84.3	224.5	135.3	84.3	224.5	135.2	-1.4
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.5	84.2	224.4	135.2	84.2	224.2	135.1	-0.6
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.6	84.2	224.2	135.0	84.2	224.2	135.0	-0.4
2	1416-1867DCT	RYTN J A	NORWALK	1	256	252.5	479.6	183.4	245.2	470.0	183.6	244.0	467.9	182.8	0.6
2	1867-1890DCT	RYTN J A	NORWALK	1	256	252.5	471.5	180.3	245.2	461.9	180.4	244.0	459.7	179.6	0.7
3	1416-1867DCT	RYTN J A	NORWALK	1	256	242.3	468.0	177.2	233.7	454.5	177.5	233.1	453.2	177.0	0.2
3	1867-1890DCT	RYTN J A	NORWALK	1	256	242.3	461.7	174.6	233.7	444.2	173.5	233.1	442.9	173.0	1.6
2	1867-1977DCT	RYTN J A	NORWALK	1	256	252.5	452.7	173.0	245.2	442.9	173.0	244.0	440.8	172.2	0.8
3	1867-1977DCT	RYTN J A	NORWALK	1	256	242.3	440.9	166.8	233.7	427.5	167.0	233.1	426.2	166.5	0.3
2	113091001DCT	RYTN J A	NORWALK	1	256	252.5	414.8	158.8	245.2	408.6	159.6	244.0	407.0	159.0	-0.2
2	1389LINE	RYTN J A	NORWALK	1	256	252.5	418.0	159.1	245.2	404.9	158.2	244.0	403.2	157.5	1.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
3	113091001DCT	RYTN J A	NORWALK	1	256	242.3	409.3	155.5	233.7	402.0	157.0	233.1	401.0	156.6	-1.1
3	1389LINE	RYTN J A	NORWALK	1	256	242.3	404.0	152.3	233.7	388.0	151.6	233.1	386.9	151.1	1.2
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	252.5	401.9	152.9	245.2	388.2	151.6	244.0	386.5	151.0	1.9
2	1130-1430DCT	RYTN J A	NORWALK	1	256	252.5	382.5	146.1	245.2	375.6	146.7	244.0	374.0	146.1	0.0
2	1867LINE	RYTN J A	NORWALK	1	256	252.5	387.5	147.8	245.2	373.8	146.0	244.0	372.1	145.4	2.4
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	252.5	387.5	147.8	245.2	373.8	146.0	244.0	372.1	145.4	2.4
2	1416-1890DCT	RYTN J A	NORWALK	1	256	252.5	379.9	145.2	245.2	373.3	145.8	244.0	371.7	145.2	0.0
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	242.3	388.3	146.3	233.7	371.8	145.2	233.1	370.8	144.8	1.5
3	1130-1430DCT	RYTN J A	NORWALK	1	256	242.3	377.0	142.8	233.7	369.3	144.3	233.1	368.4	143.9	-1.1
3	1416-1890DCT	RYTN J A	NORWALK	1	256	242.3	374.8	142.1	233.7	367.2	143.4	233.1	366.2	143.1	-1.0
3	1867LINE	RYTN J A	NORWALK	1	256	242.3	373.3	141.0	233.7	357.3	139.6	233.1	356.2	139.1	1.9
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	242.3	373.3	141.0	233.7	357.3	139.6	233.1	356.2	139.1	1.9
2	1890-1977DCT	RYTN J A	NORWALK	1	256	252.5	356.1	135.9	245.2	349.4	136.5	244.0	347.8	135.9	0.0
3	1890-1977DCT	RYTN J A	NORWALK	1	256	242.3	351.1	132.9	233.7	343.5	134.2	233.1	342.5	133.8	-0.9
2	91001LINE	RYTN J A	NORWALK	1	256	252.5	328.2	125.2	245.2	321.0	125.4	244.0	319.6	124.8	0.4
3	91001LINE	RYTN J A	NORWALK	1	256	242.3	320.4	121.2	233.7	311.8	121.8	233.1	311.0	121.5	-0.3
2	1130LINE	RYTN J A	NORWALK	1	256	252.5	308.1	117.4	245.2	300.9	117.5	244.0	299.6	117.0	0.4
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	252.5	307.8	117.2	245.2	300.5	117.4	244.0	299.2	116.9	0.3
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				245.2	297.7	116.3	244.0	296.5	115.8	
2	1430LINE	RYTN J A	NORWALK	1	256	252.5	302.3	115.1	245.2	295.1	115.3	244.0	293.8	114.8	0.3
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	242.3	299.9	113.3	233.7	291.5	113.9	233.1	290.7	113.6	-0.3
3	1130LINE	RYTN J A	NORWALK	1	256	242.3	299.6	113.3	233.7	291.1	113.7	233.1	290.3	113.4	-0.1
2	1130+1416LNS	RYTN J A	NORWALK	1	256	252.5	298.6	113.7	245.2	291.5	113.9	244.0	290.2	113.3	0.4
2	SASCOCR1T	RYTN J A	NORWALK	1	256	252.5	298.0	113.5	245.2	290.2	113.4	244.0	288.9	112.8	0.7
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	252.5	297.1	113.2	245.2	290.0	113.3	244.0	288.7	112.8	0.4
2	1890LINE	RYTN J A	NORWALK	1	256	252.5	297.2	113.2	245.2	289.5	113.1	244.0	288.1	112.6	0.6
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	252.5	297.2	113.2	245.2	289.5	113.1	244.0	288.1	112.6	0.6
2	1416LINE	RYTN J A	NORWALK	1	256	252.5	297.0	113.1	245.2	289.0	112.9	244.0	287.7	112.4	0.7
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				233.7	286.8	112.0	233.1	286.1	111.8	
3	1430LINE	RYTN J A	NORWALK	1	256	242.3	294.3	111.1	233.7	286.3	111.8	233.1	285.5	111.5	-0.4
3	1130+1416LNS	RYTN J A	NORWALK	1	256	242.3	290.1	109.6	233.7	281.8	110.1	233.1	281.0	109.8	-0.2
3	SASCOCR1T	RYTN J A	NORWALK	1	256	242.3	290.4	109.7	233.7	281.6	110.0	233.1	280.8	109.7	0.0
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	242.3	289.6	109.4	233.7	281.2	109.8	233.1	280.4	109.5	-0.1
3	1890LINE	RYTN J A	NORWALK	1	256	242.3	289.7	109.4	233.7	280.8	109.7	233.1	280.1	109.4	0.0
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	242.3	289.7	109.4	233.7	280.8	109.7	233.1	280.1	109.4	0.0
3	1416LINE	RYTN J A	NORWALK	1	256	242.3	288.4	109.0	233.7	279.4	109.2	233.1	278.7	108.9	0.1
2	DARIEN1T	RYTN J A	NORWALK	1	256	252.5	286.4	109.0	245.2	279.4	109.1	244.0	278.1	108.6	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	252.5	283.2	107.8	245.2	276.2	107.9	244.0	274.9	107.4	0.4
2	1977LINENEW	RYTN J A	NORWALK	1	256	252.5	282.6	107.6	245.2	275.5	107.6	244.0	274.2	107.1	0.5
2	387+AUTOS	RYTN J A	NORWALK	1	256	252.5	279.3	106.7							
3	DARIEN1T	RYTN J A	NORWALK	1	256	242.3	277.9	105.0	233.7	269.8	105.4	233.1	269.0	105.1	-0.1
2	387LINE	RYTN J A	NORWALK	1	256				245.2	271.1	105.9	244.0	266.4	104.0	
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	242.3	274.7	103.7	233.7	266.5	104.1	233.1	265.8	103.8	-0.1
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	252.5	274.0	104.3	245.2	266.5	104.1	244.0	265.2	103.6	0.7
2	312+393LNS	RYTN J A	NORWALK	1	256	252.5	271.3	103.3	245.2	266.4	104.1	244.0	265.2	103.6	-0.3
2	312+393REAC	RYTN J A	NORWALK	1	256	252.5	271.3	103.3	245.2	266.4	104.1	244.0	265.2	103.6	-0.3
2	312LINE	RYTN J A	NORWALK	1	256	252.5	271.3	103.3	245.2	266.4	104.1	244.0	265.2	103.6	-0.3
3	1977LINENEW	RYTN J A	NORWALK	1	256	242.3	274.0	103.5	233.7	265.8	103.8	233.1	265.1	103.6	-0.1
2	NMSTBKREAC	RYTN J A	NORWALK	1	256	252.5	271.2	103.3	245.2	266.2	104.0	244.0	265.0	103.5	-0.2
2	NOMNTSTBKR	RYTN J A	NORWALK	1	256	252.5	271.2	103.3	245.2	266.2	104.0	244.0	265.0	103.5	-0.2
2	SCOVK8TSTK	RYTN J A	NORWALK	1	256				245.2	265.8	103.8	244.0	264.6	103.4	
2	1460-387DCT	RYTN J A	NORWALK	1	256	252.5	280.0	107.0	245.2	266.6	104.1	244.0	264.3	103.2	3.8
2	393LINE	RYTN J A	NORWALK	1	256	252.5	269.2	102.5	245.2	264.2	103.2	244.0	263.0	102.7	-0.2
3	398LINE	RYTN J A	NORWALK	1	256	242.3	269.7	101.8							
3	398LREAC	RYTN J A	NORWALK	1	256	242.3	269.7	101.8							
2	8100-8200DCT	RYTN J A	NORWALK	1					245.2	260.0	101.6	244.0	259.0	101.2	
3	1460-387DCT	RYTN J A	NORWALK	1	256	242.3	267.4	101.1							
3	387+AUTOS	RYTN J A	NORWALK	1	256	242.3	266.8	100.9							
2	SINGAUT	RYTN J A	NORWALK	1	256	252.5	270.3	102.7	245.2	259.2	101.3	244.0	257.7	100.7	2.0
2	DEVON24TSTK	RYTN J A	NORWALK	1	256	252.5	263.5	100.2							
3	SOUTHEND5T	RYTN J A	NORWALK	1	256	242.3	265.5	100.3	233.7	257.0	100.4	233.1	256.3	100.1	0.2
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	164.1	403.6	141.9	158.2	391.0	142.7	159.5	394.0	143.8	-1.9
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	178.5	406.8	142.9	174.6	394.7	144.1	173.7	392.5	143.3	-0.4
2	MONTVSTBKR	SCOV L RK	KLEEN	1	1446							1021.0	1450.0	100.3	
2	364+AUTO	SCOV L RK	KLEEN	1	1446							1021.0	1449.4	100.2	
5	MONTVSTBKR	SCOV L RK	KLEEN	1	1446	1114.8	1496.8	100.2				1018.1	1448.1	100.1	0.1
5	364+AUTO	SCOV L RK	KLEEN	1	1446	1114.8	1495.3	100.1				1018.1	1447.4	100.1	0.0
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1519.0	2153.4	134.3	1566.9	2198.9	115.0	
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1547.1	2153.6	134.3	1596.0	2196.9	114.9	
2	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1547.1	2017.1	125.8	1596.0	2066.5	108.1	
2	318LINE	SCOV L RK	E.SHORE	1	1604				1547.1	2010.4	125.3	1596.0	2058.8	107.7	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
5	SGTN3TSTK	SCOVLRK	E.SHORE	1	1604				1519.0	2008.2	125.2	1566.9	2053.9	107.4	
5	318LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1999.3	124.6	1566.9	2042.5	106.8	
2	SGTN5TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1917.9	119.6	1596.0	1966.8	102.9	
5	SGTN5TSTK	SCOVLRK	E.SHORE	1	1604				1519.0	1902.8	118.6	1566.9	1951.6	102.1	
2	329LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1864.4	116.2	1596.0	1913.9	100.1	
2	1618-321DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1869.2	116.5	1596.0	1911.9	100.0	
2	1887-321DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1854.6	115.6				
2	329-352DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1852.6	115.5				
2	352+AUTO	SCOVLRK	E.SHORE	1	1604				1547.1	1852.5	115.5				
5	329LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1847.2	115.2				
5	329-352DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1843.0	114.9				
5	352+AUTO	SCOVLRK	E.SHORE	1	1604				1519.0	1843.0	114.9				
2	LONGMT5TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1838.7	114.6				
2	321LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1837.0	114.5				
2	1770-321DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1830.0	114.1				
2	362LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1793.2	111.8				
2	SGTN7TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1785.8	111.3				
2	318-362STKBR	SCOVLRK	E.SHORE	1	1604				1547.1	1775.7	110.7				
5	362LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1774.5	110.6				
5	SGTN7TSTK	SCOVLRK	E.SHORE	1	1604				1519.0	1761.8	109.8				
5	318-362STKBR	SCOVLRK	E.SHORE	1	1604				1519.0	1758.4	109.6				
5	LONGMT5TSTK	SCOVLRK	E.SHORE	1	1604				1519.0	1750.5	109.1				
5	1618-321DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1748.7	109.0				
5	1887-321DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1734.3	108.1				
5	321LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1724.3	107.5				
2	310-348DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1722.4	107.4				
2	SGTN1TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1723.4	107.4				
2	1565-PLNRDCT	SCOVLRK	E.SHORE	1	1604				1547.1	1721.8	107.3				
2	352LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1715.4	106.9				
2	348+AUTO	SCOVLRK	E.SHORE	1	1604				1547.1	1712.1	106.7				
5	1770-321DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1709.3	106.6				
5	352LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1706.4	106.4				
5	310-348DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1701.7	106.1				
3	SGTN4TSTK	SCOVLRK	E.SHORE	1	1604				1179.5	1700.8	106.0				
2	348LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1696.5	105.8				
2	1975-348DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1695.2	105.7				
5	SGTN1TSTK	SCOVLRK	E.SHORE	1	1604				1519.0	1695.2	105.7				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	SOTHNGTN12T	SCOVLRK	E.SHORE	1	1604				1547.1	1686.6	105.2				
5	348+AUTO	SCOVLRK	E.SHORE	1	1604				1519.0	1684.9	105.0				
2	312+393LNS	SCOVLRK	E.SHORE	1	1604				1547.1	1675.3	104.4				
2	312+393REAC	SCOVLRK	E.SHORE	1	1604				1547.1	1675.3	104.4				
2	312LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1675.3	104.4				
2	NMSTBKREAC	SCOVLRK	E.SHORE	1	1604				1547.1	1674.2	104.4				
2	NOMNTSTBKR	SCOVLRK	E.SHORE	1	1604				1547.1	1674.2	104.4				
5	312+393LNS	SCOVLRK	E.SHORE	1	1604				1519.0	1669.9	104.1				
5	312+393REAC	SCOVLRK	E.SHORE	1	1604				1519.0	1669.9	104.1				
5	312LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1669.9	104.1				
5	348LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1669.6	104.1				
5	1975-348DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1667.7	104.0				
5	NMSTBKREAC	SCOVLRK	E.SHORE	1	1604				1519.0	1667.9	104.0				
5	NOMNTSTBKR	SCOVLRK	E.SHORE	1	1604				1519.0	1667.9	104.0				
2	393LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1661.3	103.6				
2	PLUMNOR	SCOVLRK	E.SHORE	1	1604				1547.1	1661.2	103.6				
5	SOTHNGTN12T	SCOVLRK	E.SHORE	1	1604				1519.0	1661.5	103.6				
5	393LINE	SCOVLRK	E.SHORE	1	1604				1519.0	1652.9	103.0				
2	1261-1620DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1640.8	102.3				
2	BOKUM1T	SCOVLRK	E.SHORE	1	1604				1547.1	1640.8	102.3				
2	HADDAMBT	SCOVLRK	E.SHORE	1	1604				1547.1	1640.8	102.3				
2	362-376DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1624.5	101.3				
2	PLUMNOR+AUTO	SCOVLRK	E.SHORE	1	1604				1547.1	1616.6	100.8				
2	LOSSBPT3	SCOVLRK	E.SHORE	1	1604				1547.1	1615.0	100.7				
2	PEQUON42TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1615.0	100.7				
2	1208-1640DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1613.0	100.6				
2	1208LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1612.3	100.5				
5	1261-1620DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1612.7	100.5				
5	BOKUM1T	SCOVLRK	E.SHORE	1	1604				1519.0	1612.7	100.5				
5	HADDAMBT	SCOVLRK	E.SHORE	1	1604				1519.0	1612.7	100.5				
2	WALLING4TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1612.3	100.5				
2	WALLING5TSTK	SCOVLRK	E.SHORE	1	1604				1547.1	1612.3	100.5				
2	1342LINE	SCOVLRK	E.SHORE	1	1604				1547.1	1609.8	100.4				
2	BOKUM2T	SCOVLRK	E.SHORE	1	1604				1547.1	1610.2	100.4				
2	BOKUM3T	SCOVLRK	E.SHORE	1	1604				1547.1	1610.2	100.4				
5	362-376DCT	SCOVLRK	E.SHORE	1	1604				1519.0	1608.5	100.3				
2	1272-1721DCT	SCOVLRK	E.SHORE	1	1604				1547.1	1605.4	100.1				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	1575-1990DCT	SCOVL RK	E.SHORE	1	1604				1547.1	1605.2	100.1				
2	1355-1610DCT	SCOVL RK	E.SHORE	1	1604				1547.1	1604.1	100.0				
2	SOTHNGTN13T	SCOVL RK	E.SHORE	1	1604				1547.1	1604.1	100.0				
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				168.5	286.9	113.4	166.0	282.2	111.5	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				167.1	286.3	113.2	164.5	281.5	111.3	
2	387LINE	SHAWSHIL	BUNKER H	1	253				167.1	253.8	100.3				
3	NORSING1	SINGNOR2	NORSING2	1	794	528.2	954.1	119.8							
4	NORSING1	SINGNOR2	NORSING2	1	794	488.4	873.4	109.6							
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.3	365.6	123.2	112.7	356.0	123.2	112.7	356.0	123.2	0.0
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.5	365.6	123.2	113.0	356.0	123.2	113.0	356.0	123.2	0.0
4	1440-1450DCT	SO.END	GLNBRK J	1	289	113.0	365.6	123.2	109.5	356.0	123.2	109.6	356.0	123.2	0.0
5	1440-1450DCT	SO.END	GLNBRK J	1	289	112.2	365.6	123.2	108.8	356.0	123.2	108.7	356.0	123.2	0.0
2	1460-387DCT	SOUTHGTN	MERID362	1	1912				1260.7	2190.3	114.6	1232.3	2189.8	114.5	
2	387LINE	SOUTHGTN	MERID362	1	1912				1260.7	2201.0	115.1	1232.3	2185.5	114.3	
5	1460-387DCT	SOUTHGTN	MERID362	1	1912				1291.0	2186.5	114.4	1263.1	2183.3	114.2	
5	387LINE	SOUTHGTN	MERID362	1	1912				1291.0	2180.6	114.0	1263.1	2179.7	114.0	
5	SCOVK5TSTK	SOUTHGTN	MERID362	1	1912				1291.0	1960.6	102.5	1263.1	1959.3	102.5	
2	SCOVK5TSTK	SOUTHGTN	MERID362	1	1912				1260.7	1938.9	101.4	1232.3	1937.6	101.3	
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	270.8	650.9	111.3	293.8	794.3	135.8	291.5	781.1	133.5	-22.2
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	270.3	640.4	109.5	294.1	781.6	133.6	291.8	768.3	131.3	-21.8
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	262.6	616.2	105.3	279.5	726.1	124.1	277.7	716.4	122.5	-17.2
4	SGTN5TSTK	SOUTHGTN	SGTN B	2	585	256.0	606.9	103.7	268.7	702.0	120.0	267.3	693.8	118.6	-14.9
2	387LINE	SOUTHGTN	WLNGF PF	1	330				186.7	368.1	111.5	180.5	364.3	110.4	
5	SCOVK8TSTK	SOUTHGTN	WLNGF PF	1	330				187.3	362.9	110.0	181.2	360.9	109.4	
2	SCOVK8TSTK	SOUTHGTN	WLNGF PF	1	330				186.7	358.9	108.8	180.5	360.6	109.3	
5	387LINE	SOUTHGTN	WLNGF PF	1	330				187.3	358.7	108.7	181.2	358.1	108.5	
2	1460-387DCT	SOUTHGTN	WLNGF PF	1	330				186.7	351.1	106.4	180.5	350.6	106.2	
5	1460-387DCT	SOUTHGTN	WLNGF PF	1	330				187.3	345.7	104.8	181.2	344.7	104.5	
2	SCOVK5TSTK	SOUTHGTN	WLNGF PF	1	330				186.7	334.2	101.3	180.5	333.7	101.1	
5	SCOVK5TSTK	SOUTHGTN	WLNGF PF	1	330				187.3	332.3	100.7	181.2	331.7	100.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	69.9	298.4	124.8	69.9	298.4	124.8	0.0
5	SOUTHEND6T	WATERSDE	COS COB	1	239	72.0	299.0	124.8	70.0	298.4	124.8	70.0	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.8	102.5	132.4	360.8	102.5	0.0
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.8	102.5	132.4	360.8	102.5	0.0
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.1	367.3	102.5	132.9	360.8	102.5	132.9	360.8	102.5	0.0
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	133.0	360.8	102.5	133.0	360.8	102.5	0.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL			East Shore Alternative (PowerGEM) Cases 14B-17B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% Over	Pre-load	Post-load	% of Rating	
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	194.0	298.3	120.8							
3	SCOVrk5TSTK	WLNGF PF	WALLFRDJ	1	239	194.0	294.0	119.0							
3	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	194.0	284.9	115.5							
4	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	193.0	280.9	113.6							
4	SCOVrk5TSTK	WLNGF PF	WALLFRDJ	1	239	193.0	276.7	111.8							
4	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	193.0	271.1	109.6							

Appendix D2
Voltage Results
New Haven Harbor Off, NE-NY=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
Kleen Energy Dispatched in Place of New Haven Harbor - NE to NY Transfer = 700 MW
Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 14, 15, 16 & 17 (PowerGEM)

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	SCOVK8TSTK	ALLINGSA	115			1.012	0.858	1.013	0.857
2	SCOVK8TSTK	ALLINGSA	115			1.019	0.859	1.019	0.845
2	387LINE	ALLINGSA	115			1.019	0.873	1.019	0.898
5	SCOVK8TSTK	ALLINGSB	115			1.012	0.858	1.013	0.857
2	SCOVK8TSTK	ALLINGSB	115			1.019	0.859	1.019	0.845
2	387LINE	ALLINGSB	115			1.019	0.873	1.019	0.898
5	SCOVK8TSTK	ANSONIA	115			0.995	0.847	0.995	0.846
2	SCOVK8TSTK	ANSONIA	115			1.002	0.849	1.002	0.836
2	387LINE	ANSONIA	115			1.002	0.864	1.002	0.886
2	1460-387DCT	ANSONIA	115			1.002	0.887	1.002	0.887
2	1545-1570DCT	ANSONIA	115	1.005	0.888				
2	DEVON6TSTK	ANSONIA	115	1.005	0.888				
2	SCOVK8TSTK	ASHCREEK	115					1.024	0.898
5	SCOVK8TSTK	BAIRD A	115			1.017	0.887	1.017	0.885
2	SCOVK8TSTK	BAIRD A	115			1.024	0.889	1.024	0.877
5	SCOVK8TSTK	BAIRD B	115			1.017	0.887	1.017	0.885
2	SCOVK8TSTK	BAIRD B	115			1.024	0.889	1.024	0.876
2	SCOVK8TSTK	BALDWINA	115			1.005	0.860	1.006	0.849
5	SCOVK8TSTK	BALDWINA	115			1.004	0.862	1.005	0.861
2	387LINE	BALDWINA	115			1.005	0.881	1.006	0.896
2	1460-387DCT	BALDWINA	115			1.005	0.896	1.006	0.896
5	1272-1721DCT	BALDWINB	115	1.007	0.870	1.002	0.853	1.002	0.854
2	SCOVK8TSTK	BALDWINB	115			1.004	0.861	1.005	0.850
5	SCOVK8TSTK	BALDWINB	115			1.002	0.861	1.002	0.860

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	1272-1721DCT	BALDWINB	115	1.007	0.880	1.004	0.870	1.005	0.871
2	387LINE	BALDWINB	115			1.004	0.882	1.005	0.898
4	1272-1721DCT	BALDWINB	115	1.009	0.884	1.005	0.884	1.005	0.884
3	1272-1721DCT	BALDWINB	115	1.011	0.885	1.007	0.883	1.007	0.884
5	BUNKERH2T	BALDWINB	115			1.002	0.888	1.002	0.890
2	1460-387DCT	BALDWINB	115			1.004	0.898	1.005	0.898
5	SCOVK8TSTK	BARNUM A	115			1.014	0.881	1.015	0.879
2	SCOVK8TSTK	BARNUM A	115			1.024	0.885	1.024	0.872
2	387LINE	BARNUM A	115			1.024	0.899		
5	SCOVK8TSTK	BARNUM B	115			1.014	0.881	1.015	0.879
2	SCOVK8TSTK	BARNUM B	115			1.024	0.885	1.024	0.872
2	387LINE	BARNUM B	115			1.024	0.899		
2	SCOVK8TSTK	BATES RK	115			1.005	0.883	1.006	0.873
5	SCOVK8TSTK	BATES RK	115			1.006	0.893	1.006	0.892
5	SCOVK8TSTK	BCNFL PF	115			0.991	0.844	0.992	0.843
2	SCOVK8TSTK	BCNFL PF	115			0.996	0.845	0.996	0.833
2	387LINE	BCNFL PF	115			0.996	0.863	0.996	0.882
2	1460-387DCT	BCNFL PF	115			0.996	0.882	0.996	0.882
5	1272-1721DCT	BCNFL PF	115			0.991	0.883	0.992	0.884
2	1272-1721DCT	BCNFL PF	115			0.996	0.899	0.996	0.900
5	1460-387DCT	BCNFL PF	115			0.991	0.899		
5	387LINE	BCNFL PF	115			0.991	0.900	0.992	0.900
2	SCOVK8TSTK	BLACK RK	115			1.011	0.890	1.011	0.882
5	SCOVK8TSTK	BLACK RK	115			1.015	0.893	1.015	0.892
5	SCOVK8TSTK	BOKUM	115			1.000	0.866	1.001	0.866
2	SCOVK8TSTK	BOKUM	115			1.001	0.867	1.002	0.858
5	1261-1620DCT	BOKUM	115			1.000	0.896	1.001	0.897
5	BOKUM1T	BOKUM	115			1.000	0.896	1.001	0.897
5	HADDAMBT	BOKUM	115			1.000	0.896	1.001	0.897
2	387LINE	BOKUM	115			1.001	0.896		
5	1261-1620SDC	BOKUM	115	1.004	0.899				
2	1261-1620DCT	BOKUM	115			1.001	0.900		

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	BOKUM1T	BOKUM	115			1.001	0.900		
2	HADDAMBT	BOKUM	115			1.001	0.900		
2	SCOVK8TSTK	BRANF RR	115			1.018	0.856	1.019	0.842
5	SCOVK8TSTK	BRANF RR	115			1.015	0.858	1.016	0.857
2	1460-387DCT	BRANF RR	115			1.018	0.871	1.019	0.871
2	387LINE	BRANF RR	115			1.018	0.873	1.019	0.895
5	1460-387DCT	BRANF RR	115			1.015	0.889	1.016	0.892
2	SCOVK8TSTK	BRANFORD	115			1.013	0.841	1.014	0.828
5	SCOVK8TSTK	BRANFORD	115			1.010	0.843	1.011	0.841
2	387LINE	BRANFORD	115			1.013	0.861	1.014	0.882
2	1460-387DCT	BRANFORD	115			1.013	0.872	1.014	0.872
5	1460-387DCT	BRANFORD	115			1.010	0.889	1.011	0.892
3	BRANFORD4T	BRANFORD	115	1.030	1.052				
4	BRANFORD4T	BRANFORD	115	1.031	1.053	1.030	1.051	1.030	1.051
2	SCOVK8TSTK	BRISTOL	115			1.011	0.890	1.012	0.881
5	SCOVK8TSTK	BRISTOL	115			1.014	0.892	1.015	0.891
2	SCOVK8TSTK	BROADWAY	115			1.020	0.858	1.021	0.844
5	SCOVK8TSTK	BROADWAY	115			1.016	0.859	1.017	0.858
2	387LINE	BROADWAY	115			1.020	0.873	1.021	0.897
2	SCOVK8TSTK	BULLS BR	115			1.014	0.883	1.015	0.873
5	SCOVK8TSTK	BULLS BR	115			1.015	0.891	1.015	0.890
5	1272-1721DCT	BUNKER H	115	1.017	0.871	1.012	0.853	1.013	0.855
2	1272-1721DCT	BUNKER H	115	1.016	0.881	1.014	0.870	1.014	0.871
4	1272-1721DCT	BUNKER H	115	1.018	0.884	1.014	0.884	1.014	0.884
3	1272-1721DCT	BUNKER H	115	1.020	0.885	1.016	0.884	1.017	0.884
2	SCOVK8TSTK	BUNKER H	115			1.014	0.875	1.014	0.865
5	SCOVK8TSTK	BUNKER H	115			1.012	0.876	1.013	0.875
5	BUNKERH2T	BUNKER H	115			1.012	0.890	1.013	0.892
2	387LINE	BUNKER H	115			1.014	0.897		
2	SCOVK8TSTK	CAMPV PH	115			1.012	0.888	1.012	0.880
5	SCOVK8TSTK	CAMPV PH	115			1.012	0.889	1.013	0.888

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	CANAL	115			1.021	0.895	1.022	0.886
5	SCOVK8TSTK	CANAL	115			1.023	0.897	1.024	0.896
2	SCOVK8TSTK	CARMHILL	115			1.018	0.882	1.019	0.873
5	SCOVK8TSTK	CARMHILL	115			1.018	0.887	1.019	0.886
2	SCOVK8TSTK	CHIP HIL	115			1.009	0.886	1.009	0.878
5	SCOVK8TSTK	CHIP HIL	115			1.011	0.888	1.012	0.887
2	SCOVK8TSTK	CNGRES2A	115			1.025	0.900	1.025	0.888
2	SCOVK8TSTK	CNGRES2B	115			1.025	0.900	1.025	0.888
2	SCOVK8TSTK	COLONY	115			1.006	0.885	1.006	0.877
5	SCOVK8TSTK	COLONY	115			1.008	0.886	1.008	0.885
5	PEQUON42TSTK	CONGRESS	115			1.024	0.877	1.024	0.882
2	SCOVK8TSTK	CONGRESS	115					1.025	0.888
2	SCOVK8TSTK	CONGRESS	115					1.025	0.888
2	SCOVK8TSTK	CRRA XFO	115					1.027	0.895
5	SCOVK8TSTK	DEVON	115			1.012	0.874	1.012	0.873
2	SCOVK8TSTK	DEVON	115			1.024	0.881	1.024	0.869
2	387LINE	DEVON	115			1.024	0.896		
2	SCOVK8TSTK	DEVON	345			1.012	0.887	1.013	0.876
5	SCOVK8TSTK	DEVON	345			1.012	0.895	1.013	0.893
2	387LINE	DEVON	345			1.012	0.903	1.013	0.922
2	1460-387DCT	DEVON	345			1.012	0.925	1.013	0.925
5	387LINE	DEVON	345			1.012	0.949	1.013	0.949
5	SCOVK8TSTK	DEVON#2	115			1.008	0.876	1.009	0.874
2	SCOVK8TSTK	DEVON#2	115			1.018	0.880	1.018	0.867
2	387LINE	DEVON#2	115			1.018	0.894		
5	SCOVK8TSTK	E.DEVONJ	115			1.006	0.874	1.006	0.872

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	E.DEVONJ	115			1.021	0.884	1.021	0.871
2	387LINE	E.DEVONJ	115			1.021	0.898		
2	SCOVK8TSTK	E.MERIDN	115			1.005	0.888	1.005	0.880
5	SCOVK8TSTK	E.MERIDN	115			1.006	0.888	1.007	0.887
2	SCOVK8TSTK	E.NBRITN	115					0.999	0.898
2	SCOVK8TSTK	E.SHORE	115			1.022	0.865	1.023	0.851
5	SCOVK8TSTK	E.SHORE	115			1.018	0.867	1.019	0.866
2	387LINE	E.SHORE	115			1.022	0.880		
2	SCOVK8TSTK	E.SHORE	345			1.007	0.877	1.008	0.865
5	SCOVK8TSTK	E.SHORE	345			1.007	0.883	1.008	0.881
2	387LINE	E.SHORE	345			1.007	0.893	1.008	0.913
2	1460-387DCT	E.SHORE	345			1.007	0.917	1.008	0.917
5	387LINE	E.SHORE	345			1.007	0.939	1.008	0.939
5	1460-387DCT	E.SHORE	345			1.007	0.942	1.008	0.945
5	WRIVER1TSTK	ELMWST A	115	1.020	0.837	1.014	0.870	1.014	0.872
5	GRNDV7TSTK	ELMWST A	115	1.020	0.838	1.014	0.869	1.014	0.872
5	GRNDV6TSTK	ELMWST A	115	1.020	0.844	1.014	0.867	1.014	0.869
2	SCOVK8TSTK	ELMWST A	115			1.019	0.858	1.020	0.844
5	SCOVK8TSTK	ELMWST A	115			1.014	0.858	1.014	0.857
2	WRIVER1TSTK	ELMWST A	115	1.024	0.859	1.019	0.871	1.020	0.874
2	GRNDV7TSTK	ELMWST A	115	1.024	0.860	1.019	0.871	1.020	0.874
2	GRNDV6TSTK	ELMWST A	115	1.024	0.868	1.019	0.874	1.020	0.877
2	387LINE	ELMWST A	115			1.019	0.873	1.020	0.897
4	WRIVER1TSTK	ELMWST A	115	1.031	0.884				
4	GRNDV7TSTK	ELMWST A	115	1.031	0.885				
3	WRIVER1TSTK	ELMWST A	115	1.030	0.887	1.029	0.899	1.029	0.899
3	GRNDV7TSTK	ELMWST A	115	1.030	0.888	1.029	0.899	1.029	0.900
4	GRNDV6TSTK	ELMWST A	115	1.031	0.888				
3	GRNDV6TSTK	ELMWST A	115	1.030	0.892				
2	SCOVK8TSTK	ELMWST B	115			1.019	0.858	1.020	0.844
5	SCOVK8TSTK	ELMWST B	115			1.014	0.858	1.014	0.857
5	WRIVER2TSTK	ELMWST B	115	1.020	0.832	1.014	0.868	1.014	0.870

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	GRNDAV4TSTK	ELMWST B	115	1.020	0.833	1.014	0.867	1.014	0.870
5	GRNDAV5TSTK	ELMWST B	115	1.020	0.840	1.014	0.864	1.014	0.867
2	WRIVER2TSTK	ELMWST B	115	1.024	0.859	1.019	0.869	1.020	0.872
2	GRNDAV4TSTK	ELMWST B	115	1.024	0.860	1.019	0.869	1.020	0.871
2	GRNDAV5TSTK	ELMWST B	115	1.024	0.864	1.019	0.872	1.020	0.875
2	387LINE	ELMWST B	115			1.019	0.873	1.020	0.897
4	WRIVER2TSTK	ELMWST B	115	1.031	0.881	1.031	0.900		
4	GRNDAV5TSTK	ELMWST B	115	1.031	0.881				
4	GRNDAV4TSTK	ELMWST B	115	1.031	0.882				
3	WRIVER2TSTK	ELMWST B	115	1.030	0.884	1.029	0.897	1.029	0.897
3	GRNDAV4TSTK	ELMWST B	115	1.030	0.885	1.029	0.897	1.029	0.898
3	GRNDAV5TSTK	ELMWST B	115	1.030	0.889				
2	SCOVK8TSTK	ENG STA	115			1.021	0.859	1.022	0.845
5	SCOVK8TSTK	ENG STA	115			1.016	0.861	1.017	0.860
2	387LINE	ENG STA	115			1.021	0.875	1.022	0.899
2	SCOVK8TSTK	FORESTVL	115			1.013	0.892	1.013	0.884
5	SCOVK8TSTK	FORESTVL	115			1.016	0.895	1.016	0.894
5	1272-1721DCT	FREIGHT	115	1.018	0.869	1.014	0.852	1.014	0.853
2	1272-1721DCT	FREIGHT	115	1.018	0.879	1.015	0.869	1.016	0.870
2	SCOVK8TSTK	FREIGHT	115			1.015	0.877	1.016	0.867
5	SCOVK8TSTK	FREIGHT	115			1.014	0.878	1.014	0.877
4	1272-1721DCT	FREIGHT	115	1.020	0.883	1.016	0.882	1.016	0.882
3	1272-1721DCT	FREIGHT	115	1.021	0.884	1.018	0.882	1.018	0.882
2	SCOVK8TSTK	FRKLN DR	115			1.014	0.891	1.015	0.883
5	SCOVK8TSTK	FRKLN DR	115			1.015	0.892	1.015	0.891
2	SCOVK8TSTK	FROST BR	115			1.023	0.888	1.024	0.879
5	SCOVK8TSTK	FROST BR	115			1.022	0.890	1.023	0.889
5	SCOVK8TSTK	FRSTBDGE	345			1.019	0.903	1.019	0.902
2	SCOVK8TSTK	FRSTBDGE	345			1.019	0.903	1.020	0.895
2	387LINE	FRSTBDGE	345			1.019	0.928	1.020	0.938
2	1460-387DCT	FRSTBDGE	345			1.019	0.938	1.020	0.938
5	1460-387DCT	FRSTBDGE	345			1.019	0.948	1.019	0.950

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	387LINE	FRSTBDGE	345			1.019	0.949	1.019	0.949
2	SCOVK8TSTK	GRAND AV	115			1.021	0.859	1.022	0.845
5	SCOVK8TSTK	GRAND AV	115			1.016	0.861	1.017	0.859
2	387LINE	GRAND AV	115			1.021	0.874	1.022	0.898
2	SCOVK8TSTK	GREEN HL	115			0.992	0.825	0.993	0.813
5	SCOVK8TSTK	GREEN HL	115			0.990	0.825	0.991	0.824
2	387LINE	GREEN HL	115			0.992	0.850	0.993	0.867
2	1460-387DCT	GREEN HL	115			0.992	0.869	0.993	0.869
5	1460-387DCT	GREEN HL	115			0.990	0.883	0.991	0.886
5	387LINE	GREEN HL	115			0.990	0.886	0.991	0.886
5	SCOVK8TSTK	HADAUTO	345			1.020	0.939	1.020	0.938
2	SCOVK8TSTK	HADAUTO	345			1.020	0.941	1.021	0.935
2	SCOVK8TSTK	HADDM NK	345					1.031	0.949
2	SCOVK8TSTK	HANOVERA	115			1.017	0.898	1.018	0.889
5	SCOVK8TSTK	HANOVERA	115					1.022	0.899
2	SCOVK8TSTK	HANOVERB	115			1.007	0.885	1.008	0.877
5	SCOVK8TSTK	HANOVERB	115			1.010	0.886	1.010	0.885
2	SCOVK8TSTK	HAWTHORN	115			1.017	0.894	1.017	0.882
5	SCOVK8TSTK	IND.WELL	115			0.994	0.846	0.995	0.844
2	SCOVK8TSTK	IND.WELL	115			1.001	0.847	1.002	0.835
2	387LINE	IND.WELL	115			1.001	0.862	1.002	0.884
2	1460-387DCT	IND.WELL	115			1.001	0.886	1.002	0.886
2	1545-1570DCT	IND.WELL	115	1.005	0.878				
2	DEVON6TSTK	IND.WELL	115	1.005	0.878				
5	1545-1570DCT	IND.WELL	115	1.004	0.894				
5	DEVON6TSTK	IND.WELL	115	1.004	0.894				
4	1545-1570DCT	IND.WELL	115	1.007	0.894				
4	DEVON6TSTK	IND.WELL	115	1.007	0.894				
5	SCOVK8TSTK	JUNE ST	115			1.003	0.832	1.004	0.830

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	JUNE ST	115			1.010	0.834	1.011	0.821
2	387LINE	JUNE ST	115			1.010	0.851	1.011	0.874
2	1460-387DCT	JUNE ST	115			1.010	0.876	1.011	0.876
5	387LINE	JUNE ST	115			1.003	0.894	1.004	0.894
5	1460-387DCT	JUNE ST	115			1.003	0.895	1.004	0.899
2	SCOVK8TSTK	LONG MTN	345			1.008	0.911	1.009	0.903
5	SCOVK8TSTK	LONG MTN	345			1.008	0.914	1.009	0.913
2	387LINE	LONG MTN	345			1.008	0.926	1.009	0.937
2	1460-387DCT	LONG MTN	345			1.008	0.937	1.009	0.937
5	SCOVK8TSTK	MERID362	345			1.030	0.928	1.030	0.927
2	SCOVK8TSTK	MERID362	345			1.030	0.931	1.030	0.924
2	SCOVK8TSTK	MIDDLRIV	115			1.011	0.885	1.011	0.875
5	SCOVK8TSTK	MIDDLRIV	115			1.011	0.895	1.012	0.894
5	SCOVK8TSTK	MILFORD	115			1.006	0.874	1.006	0.872
2	SCOVK8TSTK	MILFORD	115			1.022	0.885	1.022	0.872
2	387LINE	MILFORD	115			1.022	0.899		
2	SCOVK8TSTK	MILL RVR	115			1.021	0.859	1.021	0.845
5	SCOVK8TSTK	MILL RVR	115			1.016	0.860	1.017	0.859
2	387LINE	MILL RVR	115			1.021	0.874	1.021	0.898
5	SCOVK8TSTK	MILVON A	115			1.011	0.870	1.011	0.868
2	SCOVK8TSTK	MILVON A	115			1.022	0.876	1.022	0.862
2	387LINE	MILVON A	115			1.022	0.890		
5	SCOVK8TSTK	MILVON B	115			1.011	0.870	1.011	0.868
2	SCOVK8TSTK	MILVON B	115			1.022	0.876	1.022	0.862
2	387LINE	MILVON B	115			1.022	0.890		
5	SCOVK8TSTK	MIX AVE	115			1.004	0.822	1.005	0.821
2	SCOVK8TSTK	MIX AVE	115			1.008	0.823	1.010	0.809
2	387LINE	MIX AVE	115			1.008	0.839	1.010	0.863
2	1460-387DCT	MIX AVE	115			1.008	0.866	1.010	0.866
5	387LINE	MIX AVE	115			1.004	0.887	1.005	0.887

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	1460-387DCT	MIX AVE	115			1.004	0.888	1.005	0.892
2	SCOVK8TSTK	NEWTOWN	115			1.009	0.875	1.010	0.864
5	SCOVK8TSTK	NEWTOWN	115			1.008	0.882	1.009	0.880
2	387LINE	NEWTOWN	115			1.009	0.892		
2	SCOVK8TSTK	NO.HAVEN	115			1.020	0.850	1.021	0.837
5	SCOVK8TSTK	NO.HAVEN	115			1.017	0.851	1.019	0.850
2	387LINE	NO.HAVEN	115			1.020	0.869	1.021	0.891
2	1460-387DCT	NO.HAVEN	115			1.020	0.889	1.021	0.889
2	SCOVK8TSTK	NO.WALLF	115			1.005	0.886	1.005	0.878
5	SCOVK8TSTK	NO.WALLF	115			1.006	0.887	1.007	0.886
2	SCOVK8TSTK	NOERA	115			1.018	0.885	1.019	0.876
2	SCOVK8TSTK	NOERA	115			1.019	0.886	1.020	0.877
5	SCOVK8TSTK	NOERA	115			1.019	0.887	1.019	0.886
5	SCOVK8TSTK	NOERA	115			1.019	0.888	1.020	0.887
2	SCOVK8TSTK	NORWALK	345			1.008	0.889	1.009	0.879
5	SCOVK8TSTK	NORWALK	345			1.011	0.900	1.011	0.899
2	387LINE	NORWALK	345			1.008	0.906	1.009	0.924
2	1460-387DCT	NORWALK	345			1.008	0.926	1.009	0.926
2	SCOVK8TSTK	OLD TOWN	115			1.015	0.883	1.015	0.871
5	SCOVK8TSTK	OLD TOWN	115			1.012	0.888	1.012	0.886
2	387LINE	OLD TOWN	115			1.015	0.896		
2	SCOVK8TSTK	ORANGE	345			1.008	0.878	1.008	0.866
5	SCOVK8TSTK	ORANGE	345			1.007	0.884	1.008	0.883
2	387LINE	ORANGE	345			1.008	0.894	1.008	0.914
2	1460-387DCT	ORANGE	345			1.008	0.918	1.008	0.918
5	387LINE	ORANGE	345			1.007	0.940	1.008	0.940
5	1460-387DCT	ORANGE	345			1.007	0.943	1.008	0.946
2	SCOVK8TSTK	PEACEABL	115			1.015	0.900	1.016	0.889
2	SCOVK8TSTK	PEQUONIC	115					1.026	0.892

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	PLUMTREE	115			1.015	0.891	1.016	0.881
5	SCOVK8TSTK	PLUMTREE	115					1.017	0.900
2	SCOVK8TSTK	PLUMTREE	345			1.003	0.888	1.004	0.879
5	SCOVK8TSTK	PLUMTREE	345			1.005	0.898	1.006	0.897
2	387LINE	PLUMTREE	345			1.003	0.906	1.004	0.922
2	1460-387DCT	PLUMTREE	345			1.003	0.923	1.004	0.923
5	387LINE	PLUMTREE	345			1.005	0.947	1.006	0.947
5	1460-387DCT	PLUMTREE	345			1.005	0.947	1.006	0.950
2	SCOVK8TSTK	QUINNIP	115			1.018	0.851	1.019	0.837
5	SCOVK8TSTK	QUINNIP	115			1.014	0.852	1.015	0.851
2	387LINE	QUINNIP	115			1.018	0.867	1.019	0.891
2	1460-387DCT	QUINNIP	115			1.018	0.894	1.019	0.894
2	SCOVK8TSTK	RDGEFLDA	115			1.012	0.896	1.012	0.885
2	SCOVK8TSTK	RDGEFLDB	115			1.012	0.896	1.012	0.885
2	SCOVK8TSTK	ROCK RIV	115			1.017	0.887	1.018	0.876
5	SCOVK8TSTK	ROCK RIV	115			1.018	0.894	1.018	0.893
2	SCOVK8TSTK	SACKETT	115			1.021	0.848	1.022	0.834
5	SCOVK8TSTK	SACKETT	115			1.017	0.849	1.018	0.848
2	387LINE	SACKETT	115			1.021	0.864	1.022	0.889
2	1460-387DCT	SACKETT	115			1.021	0.894	1.022	0.894
5	SCOVK8TSTK	SACKPHS	115			1.005	0.825	1.007	0.823
2	SCOVK8TSTK	SACKPHS	115			1.010	0.825	1.011	0.811
2	387LINE	SACKPHS	115			1.010	0.841	1.011	0.865
2	1460-387DCT	SACKPHS	115			1.010	0.868	1.011	0.868
5	387LINE	SACKPHS	115			1.005	0.889	1.007	0.889
5	1460-387DCT	SACKPHS	115			1.005	0.890	1.007	0.894
2	SCOVK8TSTK	SGTN B	115					1.023	0.896
2	SCOVK8TSTK	SHAWSHIL	115			1.018	0.881	1.019	0.872

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	SCOVK8TSTK	SHAWSHIL	115			1.017	0.883	1.018	0.882
2	SCOVK8TSTK	SHEPAUG	115			1.012	0.888	1.012	0.878
5	SCOVK8TSTK	SHEPAUG	115			1.012	0.898	1.013	0.897
2	SCOVK8TSTK	SINGER	345			1.011	0.888	1.012	0.877
5	SCOVK8TSTK	SINGER	345			1.012	0.897	1.013	0.896
2	387LINE	SINGER	345			1.011	0.905	1.012	0.923
2	1460-387DCT	SINGER	345			1.011	0.926	1.012	0.926
2	SCOVK8TSTK	SNDYHK	115			1.008	0.869	1.009	0.858
5	SCOVK8TSTK	SNDYHK	115			1.006	0.873	1.007	0.872
2	387LINE	SNDYHK	115			1.008	0.886		
5	SCOVK8TSTK	SO.NAUG	115			1.002	0.864	1.003	0.862
2	SCOVK8TSTK	SO.NAUG	115			1.007	0.864	1.008	0.854
5	1272-1721DCT	SO.NAUG	115			1.002	0.884	1.003	0.885
2	387LINE	SO.NAUG	115			1.007	0.884		
2	SCOVK8TSTK	SOUTHGTN	115			1.020	0.897	1.021	0.889
5	SCOVK8TSTK	SOUTHGTN	115			1.023	0.899	1.024	0.898
5	SCOVK8TSTK	SOUTHGTN	345			1.024	0.916	1.025	0.915
2	SCOVK8TSTK	SOUTHGTN	345			1.025	0.918	1.026	0.911
2	SCOVK8TSTK	STEVENS	115			1.008	0.865	1.009	0.854
5	SCOVK8TSTK	STEVENS	115			1.005	0.868	1.006	0.866
2	387LINE	STEVENS	115			1.008	0.883		
2	SCOVK8TSTK	STONY HL	115			1.015	0.890	1.015	0.880
5	SCOVK8TSTK	STONY HL	115			1.015	0.900	1.016	0.899
2	SCOVK8TSTK	THOMASTN	115			1.009	0.885	1.009	0.877
5	SCOVK8TSTK	THOMASTN	115			1.010	0.887	1.011	0.886
2	SCOVK8TSTK	TODD	115			1.020	0.889	1.020	0.880
5	SCOVK8TSTK	TODD	115			1.021	0.891	1.021	0.890

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ne-ny-091503-xKL		East Shore Alternative (PowerGEM) Cases 14B-17B		East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 14C-17C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	SCOVK8TSTK	TORR TER	115			1.013	0.889	1.014	0.881
5	SCOVK8TSTK	TORR TER	115			1.014	0.890	1.014	0.889
5	SCOVK8TSTK	TRAP FLS	115			1.002	0.860	1.002	0.859
2	SCOVK8TSTK	TRAP FLS	115			1.009	0.863	1.010	0.850
2	387LINE	TRAP FLS	115			1.009	0.878	1.010	0.899
2	SCOVK8TSTK	TRIANGLE	115			1.011	0.886	1.012	0.875
5	SCOVK8TSTK	TRIANGLE	115			1.012	0.896	1.012	0.895
2	SCOVK8TSTK	U.A.C.	115			1.018	0.898	1.019	0.890
2	SCOVK8TSTK	W.BRKFLD	115			1.013	0.886	1.014	0.875
5	SCOVK8TSTK	W.BRKFLD	115			1.013	0.895	1.014	0.893
2	SCOVK8TSTK	WATER ST	115			1.020	0.858	1.021	0.844
5	SCOVK8TSTK	WATER ST	115			1.016	0.860	1.017	0.858
2	387LINE	WATER ST	115			1.020	0.873	1.021	0.897
5	SCOVK8TSTK	WDMONT A	115			1.011	0.861	1.011	0.859
2	SCOVK8TSTK	WDMONT A	115			1.019	0.863	1.020	0.850
2	387LINE	WDMONT A	115			1.019	0.878		
5	SCOVK8TSTK	WDMONT B	115			1.011	0.861	1.011	0.859
2	SCOVK8TSTK	WDMONT B	115			1.019	0.863	1.020	0.850
2	387LINE	WDMONT B	115			1.019	0.878		
2	SCOVK8TSTK	WEST RIV	115			1.020	0.858	1.021	0.845
5	SCOVK8TSTK	WEST RIV	115			1.015	0.860	1.016	0.858
2	387LINE	WEST RIV	115			1.020	0.874	1.021	0.898
2	SCOVK8TSTK	WESTON	115			1.012	0.894	1.013	0.883
2	SCOVK8TSTK	WLNGF PF	115			1.018	0.853	1.019	0.841
5	SCOVK8TSTK	WLNGF PF	115			1.016	0.854	1.017	0.853
2	387LINE	WLNGF PF	115			1.018	0.874	1.019	0.893
2	1460-387DCT	WLNGF PF	115			1.018	0.893	1.019	0.894

Appendix E1
Thermal Results
New Haven Harbor On, NY-NE=700

**Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level
Worst Case Thermal Overload Summary**

**Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NY to NE Transfer = 700 MW**

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	9.1	132.7	131.0	14.1	147.9	132.1	-1.1
3	1389-1880DCT	CRRRA JCT	ASHCREEK	1	439	283.5	448.2	100.1	278.3	440.9	100.4	-0.3
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	42.6	115.0	101.2				
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	224.9	471.5	180.2	216.4	459.1	179.3	0.9
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.0	444.7	154.3	171.9	430.1	154.2	0.1
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	183.5	464.2	102.2	177.2	449.0	102.3	-0.1
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	168.7	440.7	147.6	163.0	426.0	147.4	0.2
5	GRNDAV2TSTK	GRAND AV	WEST RIV	1	258	107.9	270.8	102.0	110.2	259.6	100.6	1.4
5	GRNDAV2TSTK	GRAND AV	WEST RIV	2	258	107.9	270.8	102.0	110.2	259.6	100.6	1.4
2	1620SLINE	HADDAM	BOKUM	1	165				97.7	173.1	104.9	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	299.3	223.4	
5	LONGMT5TSTK	NORHR138	NWLK HAR	1	402	209.0	429.2	106.8	206.8	473.8	117.8	-11.0
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	269.8	517.5	197.6	260.5	503.7	196.8	0.8
5	LONGMT5TSTK	NRTHPT P	NRTHPRT1	1	450				201.3	481.8	107.1	
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	186.1	434.5	159.6	176.8	418.3	159.1	0.5
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	192.6	328.6	104.4	188.8	316.9	104.3	0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.4	284.5	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	245.9	178.2	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.2	84.3	224.5	135.3	-0.1
2	1416-1867DCT	RYTN J A	NORWALK	1	256	251.6	479.2	183.1	242.7	466.6	182.3	0.8
4	1867-1890DCT	RYTN J A	NWLK HAR	1	256	179.2	408.4	143.5	175.6	397.8	145.2	-1.7
2	1867-1977DCT	RYTN J A	NORWALK	1	256	251.6	452.1	172.6	242.7	439.3	171.6	1.0
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				154.5	260.3	102.9	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.3	365.6	123.2	112.7	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				271.7	649.6	111.0	
4	DEVON2TSTK	TRMB J A	PEQUONIC	1	231				58.4	233.0	100.8	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	42.9	282.6	100.7				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.8	102.5	0.0

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NY to NE Transfer = 700 MW

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	9.1	132.7	131.0	14.1	147.9	132.1	-1.1
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	9.7	132.1	129.5	16.4	145.5	129.9	-0.4
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	22.5	130.7	127.6	14.6	142.9	127.6	0.0
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	38.2	129.8	126.8	32.3	141.7	126.5	0.3
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	9.1	111.2	106.9	14.1	121.6	108.5	-1.6
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	9.7	110.6	105.9	16.4	117.9	105.3	0.6
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	22.5	109.4	104.4	14.6	116.7	104.2	0.2
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	38.2	108.4	103.5	32.3	116.1	103.7	-0.2
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439	283.5	448.2	100.1	278.3	440.9	100.4	-0.3
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	42.6	115.0	101.2				
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	224.9	471.5	180.2	216.4	459.1	179.3	0.9
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	213.8	458.7	174.3	206.3	445.6	174.1	0.2
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	224.9	444.5	169.7	216.4	431.8	168.7	1.0
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	213.8	431.6	163.8	206.3	418.5	163.5	0.3
2	113091001DCT	FLAX HIL	RYTN J B	1	256	224.9	387.5	148.1	216.4	378.0	147.7	0.4
3	113091001DCT	FLAX HIL	RYTN J B	1	256	213.8	380.9	144.9	206.3	373.1	145.8	-0.9
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	224.9	377.4	143.8	216.4	364.8	142.5	1.3
2	1880LINE	FLAX HIL	RYTN J B	1	256	224.9	377.2	143.7	216.4	362.9	141.7	2.0
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	224.9	377.2	143.7	216.4	362.9	141.7	2.0
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	224.9	375.6	143.0	216.4	361.2	141.1	1.9
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	213.8	362.4	137.2	206.3	348.9	136.3	0.9
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	224.9	358.4	136.9	216.4	348.1	136.0	0.9
3	1880LINE	FLAX HIL	RYTN J B	1	256	213.8	362.2	137.1	206.3	347.7	135.8	1.3
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	213.8	362.2	137.1	206.3	347.7	135.8	1.3
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	224.9	355.1	135.4	216.4	345.1	134.8	0.6
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	213.8	359.1	135.8	206.3	344.3	134.5	1.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	224.9	351.7	134.3	216.4	342.3	133.7	0.6
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	213.8	348.5	132.2	206.3	340.5	133.0	-0.8
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	213.8	348.7	132.3	206.3	338.1	132.1	0.2
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	213.8	345.7	131.2	206.3	337.8	132.0	-0.8
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	224.9	328.0	125.1	216.4	318.5	124.4	0.7
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	213.8	322.1	122.1	206.3	314.3	122.8	-0.7
2	91001LINE	FLAX HIL	RYTN J B	1	256	224.9	301.0	114.7	216.4	291.8	114.0	0.7
3	91001LINE	FLAX HIL	RYTN J B	1	256	213.8	292.2	110.7	206.3	284.1	111.0	-0.3
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	224.9	280.4	106.6	216.4	271.3	106.0	0.6
2	1130LINE	FLAX HIL	RYTN J B	1	256	224.9	280.0	106.6	216.4	271.1	105.9	0.7
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	224.9	278.7	106.1	216.4	268.4	104.9	1.2
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				216.4	267.7	104.6	
2	1430LINE	FLAX HIL	RYTN J B	1	256	224.9	275.1	104.6	216.4	266.2	104.0	0.6
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	213.8	271.6	102.7	206.3	263.7	103.0	-0.3
3	1130LINE	FLAX HIL	RYTN J B	1	256	213.8	270.5	102.5	206.3	262.8	102.6	-0.1
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	224.9	270.5	103.0	216.4	261.8	102.3	0.7
2	SASCOCR1T	FLAX HIL	RYTN J B	1	256	224.9	270.2	102.8	216.4	260.9	101.9	0.9
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	224.9	269.4	102.5	216.4	260.5	101.8	0.7
2	1890LINE	FLAX HIL	RYTN J B	1	256	224.9	269.5	102.5	216.4	260.2	101.7	0.8
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	224.9	269.5	102.5	216.4	260.2	101.7	0.8
2	1416LINE	FLAX HIL	RYTN J B	1	256	224.9	269.0	102.4	216.4	259.6	101.4	1.0
3	1430LINE	FLAX HIL	RYTN J B	1	256	213.8	266.2	100.7	206.3	258.8	101.1	-0.4
3	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				206.3	258.2	100.8	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.0	444.7	154.3	171.9	430.1	154.2	0.1
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	176.7	436.6	151.5	171.0	423.0	151.6	-0.1
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	176.7	296.5	102.8	171.0	287.9	103.2	-0.4
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	178.0	291.5	101.1	171.9	282.5	101.2	-0.1
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279	176.7	289.1	100.2	171.0	280.7	100.6	-0.4
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	183.5	464.2	102.2	177.2	449.0	102.3	-0.1
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	168.7	440.7	147.6	163.0	426.0	147.4	0.2
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	159.2	417.8	139.9	152.9	401.7	139.0	0.9
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	153.7	357.5	120.8	148.3	347.0	120.1	0.7
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	148.1	347.7	116.9	143.3	337.1	116.6	0.3
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	153.7	344.0	116.2	148.3	334.6	115.8	0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	148.1	339.4	114.1	143.3	330.5	114.3	-0.2
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	153.7	315.6	106.5	148.3	306.5	106.1	0.4
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	148.1	310.9	104.4	143.3	302.4	104.7	-0.3
5	GRNDV2TSTK	GRAND AV	WEST RIV	1	258	107.9	270.8	102.0	110.2	259.6	100.6	1.4
5	GRNDV2TSTK	GRAND AV	WEST RIV	2	258	107.9	270.8	102.0	110.2	259.6	100.6	1.4
2	1620SLINE	HADDAM	BOKUM	1	165				97.7	173.1	104.9	
5	1620SLINE	HADDAM	BOKUM	1	165				97.6	173.0	104.8	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	299.3	223.4	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	298.3	222.6	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	298.3	222.6	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	297.3	221.9	
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.7	147.0	111.5	22.5	149.4	111.5	0.0
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.7	22.4	149.0	111.2	-0.5
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.7	22.4	148.9	111.1	-0.4
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.6	22.4	148.5	110.8	-0.2
5	LONGMT5TSTK	NORHR138	NWLK HAR	1	402	209.0	429.2	106.8	206.8	473.8	117.8	-11.0
5	398LINE	NORHR138	NWLK HAR	1	402	209.0	413.4	102.8	206.8	436.9	108.7	-5.9
5	398LREAC	NORHR138	NWLK HAR	1	402	209.0	413.4	102.8	206.8	436.9	108.7	-5.9
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	269.8	517.5	197.6	260.5	503.7	196.8	0.8
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	261.3	507.9	191.9	250.9	490.5	191.6	0.3
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	269.8	490.3	187.1	260.5	476.4	186.1	1.0
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	261.3	480.6	181.5	250.9	463.3	181.0	0.5
2	113091001DCT	NORWALK	FLAX HIL	1	256	269.8	431.9	165.3	260.5	422.2	164.9	0.4
3	113091001DCT	NORWALK	FLAX HIL	1	256	261.3	427.7	162.3	250.9	417.5	163.1	-0.8
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	269.8	422.9	161.1	260.5	409.3	159.9	1.2
2	1880LINE	NORWALK	FLAX HIL	1	256	269.8	422.7	161.0	260.5	407.0	159.0	2.0
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	269.8	422.7	161.0	260.5	407.0	159.0	2.0
2	NORWALKST2	NORWALK	FLAX HIL	1	256	269.8	421.7	160.3	260.5	406.2	158.7	1.6
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	261.3	411.0	154.9	250.9	393.7	153.8	1.1
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	269.8	405.3	154.5	260.5	393.4	153.7	0.8
3	1880LINE	NORWALK	FLAX HIL	1	256	261.3	410.8	154.8	250.9	392.6	153.3	1.5

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	261.3	410.8	154.8	250.9	392.6	153.3	1.5
3	NORWALKST2	NORWALK	FLAX HIL	1	256	261.3	408.6	153.6	250.9	390.1	152.4	1.2
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	269.8	399.5	152.5	260.5	389.3	152.1	0.4
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	269.8	396.4	151.4	260.5	386.4	150.9	0.5
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	261.3	395.3	149.7	250.9	384.7	150.3	-0.6
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	261.3	398.2	150.2	250.9	383.6	149.8	0.4
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	261.3	392.6	148.7	250.9	382.1	149.3	-0.6
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	269.8	372.8	142.2	260.5	362.8	141.7	0.5
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	261.3	369.1	139.6	250.9	358.7	140.1	-0.5
2	91001LINE	NORWALK	FLAX HIL	1	256	269.8	345.8	131.8	260.5	336.0	131.2	0.6
3	91001LINE	NORWALK	FLAX HIL	1	256	261.3	339.4	128.3	250.9	328.6	128.4	-0.1
2	1130LINE	NORWALK	FLAX HIL	1	256	269.8	325.0	123.8	260.5	315.4	123.2	0.6
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	269.8	325.2	123.7	260.5	315.4	123.2	0.5
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	269.8	324.8	123.5	260.5	313.4	122.4	1.1
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				260.5	312.1	121.9	
2	1430LINE	NORWALK	FLAX HIL	1	256	269.8	319.7	121.6	260.5	309.9	121.1	0.5
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	261.3	318.7	120.3	250.9	308.1	120.3	0.0
3	1130LINE	NORWALK	FLAX HIL	1	256	261.3	317.9	120.1	250.9	307.4	120.1	0.0
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	269.8	315.6	120.1	260.5	306.0	119.5	0.6
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	269.8	315.1	119.9	260.5	304.9	119.1	0.8
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	269.8	314.3	119.6	260.5	304.7	119.0	0.6
2	1890LINE	NORWALK	FLAX HIL	1	256	269.8	314.4	119.7	260.5	304.1	118.8	0.9
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	269.8	314.4	119.7	260.5	304.1	118.8	0.9
2	1416LINE	NORWALK	FLAX HIL	1	256	269.8	313.9	119.5	260.5	303.6	118.6	0.9
3	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				250.9	303.0	118.4	
3	1430LINE	NORWALK	FLAX HIL	1	256	261.3	313.2	118.2	250.9	302.9	118.3	-0.1
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	261.3	309.0	116.6	250.9	298.0	116.4	0.2
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	261.3	308.5	116.5	250.9	298.1	116.4	0.1
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	261.3	308.3	116.3	250.9	297.6	116.3	0.0
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	261.3	311.9	117.4	250.9	297.5	116.2	1.2
3	1890LINE	NORWALK	FLAX HIL	1	256	261.3	308.4	116.3	250.9	297.3	116.1	0.2
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	261.3	308.3	116.3	250.9	297.3	116.1	0.2
3	1416LINE	NORWALK	FLAX HIL	1	256	261.3	306.8	115.9	250.9	295.9	115.6	0.3
2	DARIEN1T	NORWALK	FLAX HIL	1	256	269.8	303.4	115.5	260.5	294.1	114.9	0.6
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	269.8	300.3	114.3	260.5	290.9	113.6	0.7
2	1977LINENEW	NORWALK	FLAX HIL	1	256	269.8	299.6	114.0	260.5	290.2	113.4	0.6
3	DARIEN1T	NORWALK	FLAX HIL	1	256	261.3	296.4	111.9	250.9	286.2	111.8	0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	387+AUTOS	NORWALK	FLAX HIL	1	256	269.8	292.5	111.4				
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	261.3	293.2	110.7	250.9	283.0	110.5	0.2
3	1977LINENEW	NORWALK	FLAX HIL	1	256	261.3	292.6	110.4	250.9	282.3	110.3	0.1
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	269.8	291.2	110.7	260.5	281.3	109.9	0.8
3	387LINE	NORWALK	FLAX HIL	1	256				250.9	281.0	109.8	
3	1460-387DCT	NORWALK	FLAX HIL	1	256	261.3	281.5	106.2	250.9	280.8	109.7	-3.5
3	SCOVK8TSTK	NORWALK	FLAX HIL	1	256				250.9	279.2	109.1	
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	269.8	279.0	106.3	260.5	278.6	108.8	-2.5
2	387LINE	NORWALK	FLAX HIL	1	256				260.5	277.7	108.5	
2	1460-387DCT	NORWALK	FLAX HIL	1	256	269.8	292.4	111.4	260.5	277.2	108.3	3.1
2	SCOVK8TSTK	NORWALK	FLAX HIL	1	256	269.8	267.3	101.6	260.5	274.7	107.3	-5.7
2	SINGAUT	NORWALK	FLAX HIL	1	256	269.8	286.5	108.8	260.5	273.6	106.9	1.9
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	261.3	284.1	107.2	250.9	273.6	106.9	0.3
3	387+AUTOS	NORWALK	FLAX HIL	1	256	261.3	281.6	106.3				
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	269.8	278.9	106.1	260.5	269.5	105.3	0.8
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	269.8	279.5	106.3	260.5	269.3	105.2	1.1
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	269.8	276.7	105.2	260.5	266.7	104.2	1.0
2	STEVENSNSTK	NORWALK	FLAX HIL	1	256	269.8	276.9	105.2	260.5	266.8	104.2	1.0
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	269.8	276.7	105.2	260.5	266.7	104.2	1.0
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	269.8	275.5	104.7	260.5	266.8	104.2	0.5
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	269.8	276.0	104.9	260.5	266.4	104.1	0.8
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	269.8	276.0	104.9	260.5	266.4	104.1	0.8
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	269.8	276.0	104.8	260.5	266.5	104.1	0.7
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	269.8	276.1	104.9	260.5	266.4	104.0	0.9
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	269.8	276.1	104.9	260.5	266.4	104.0	0.9
2	MIXAVE1	NORWALK	FLAX HIL	1	256	269.8	275.0	104.5	260.5	266.3	104.0	0.5
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	269.8	275.2	104.6	260.5	265.8	103.8	0.8
3	8100-8200DCT	NORWALK	FLAX HIL	1	256	261.3	268.4	101.3	250.9	265.8	103.8	-2.5
2	1640-1690DCT	NORWALK	FLAX HIL	1	256	269.8	272.7	103.7				
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	269.8	274.1	104.2	260.5	265.2	103.6	0.6
3	SCOVK5TSTK	NORWALK	FLAX HIL	1	256				250.9	265.1	103.5	
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	269.8	274.5	104.3	260.5	264.8	103.4	0.9
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	269.8	273.3	103.9	260.5	264.6	103.4	0.5
2	COLONY1T	NORWALK	FLAX HIL	1	256	269.8	273.9	104.1	260.5	264.6	103.3	0.8
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	269.8	273.8	104.0	260.5	264.4	103.3	0.7
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	269.8	271.5	103.3				
2	362ELINE	NORWALK	FLAX HIL	1	256	269.8	271.4	103.3				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	269.8	274.0	104.1	260.5	264.3	103.2	0.9
2	SACKETST1	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	264.2	103.2	0.3
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		260.5	264.2	103.2	
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	269.8	273.9	104.1	260.5	263.9	103.1	1.0
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	269.8	273.8	104.1	260.5	264.0	103.1	1.0
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	269.8	273.3	103.9	260.5	264.0	103.1	0.8
2	DEVAUT	NORWALK	FLAX HIL	1	256	269.8	274.8	104.3	260.5	263.6	103.0	1.3
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	269.8	273.5	104.0	260.5	263.6	103.0	1.0
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	269.8	273.5	104.0	260.5	263.6	103.0	1.0
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	269.8	273.0	103.8	260.5	263.6	103.0	0.8
2	1500LINE	NORWALK	FLAX HIL	1	256	269.8	273.0	103.8	260.5	263.7	103.0	0.8
2	1605LINE	NORWALK	FLAX HIL	1	256	269.8	273.0	103.8	260.5	263.7	103.0	0.8
2	88005ALINE	NORWALK	FLAX HIL	1	256	269.8	272.7	103.7	260.5	263.7	103.0	0.7
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	269.8	272.7	103.7	260.5	263.7	103.0	0.7
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	263.8	103.0	0.3
2	GRNDV5TSTK	NORWALK	FLAX HIL	1	256	269.8	271.1	103.1	260.5	263.8	103.0	0.1
2	GRNDV6TSTK	NORWALK	FLAX HIL	1	256	269.8	271.1	103.1	260.5	263.8	103.0	0.1
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	269.8	273.4	103.9	260.5	263.5	102.9	1.0
2	PLUMTREE28T	NORWALK	FLAX HIL	1	256	269.8	273.4	103.9	260.5	263.4	102.9	1.0
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	269.8	273.2	103.9	260.5	263.3	102.9	1.0
2	1505LINE	NORWALK	FLAX HIL	1	256	269.8	272.8	103.7	260.5	263.5	102.9	0.8
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	269.8	272.9	103.7	260.5	263.4	102.9	0.8
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	263.4	102.9	0.2
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	269.8	272.8	103.8	260.5	263.2	102.8	1.0
2	1770LINE	NORWALK	FLAX HIL	1	256	269.8	272.8	103.7	260.5	263.1	102.8	0.9
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	269.8	272.8	103.7	260.5	263.2	102.8	0.9
2	PLUMTREE25T	NORWALK	FLAX HIL	1	256	269.8	272.7	103.7	260.5	263.1	102.8	0.9
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	269.8	272.6	103.6	260.5	263.2	102.8	0.8
2	1690LINE	NORWALK	FLAX HIL	1	256	269.8	272.6	103.6	260.5	263.1	102.8	0.8
2	1355LINE	NORWALK	FLAX HIL	1	256	269.8	272.4	103.5	260.5	263.1	102.8	0.7
2	347LINE	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	263.1	102.8	0.7
2	347LREAC	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	263.1	102.8	0.7
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	263.2	102.8	0.7
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	263.2	102.8	0.7
2	EDEVDEV2	NORWALK	FLAX HIL	1	256	269.8	269.0	102.4	260.5	263.3	102.8	-0.4
2	JUNEST1	NORWALK	FLAX HIL	1	256	269.8	272.7	103.7	260.5	263.0	102.7	1.0
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	269.8	272.9	103.7	260.5	263.0	102.7	1.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	269.8	272.4	103.5	260.5	263.0	102.7	0.8
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	269.8	272.2	103.5	260.5	262.8	102.7	0.8
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	269.8	272.4	103.5	260.5	263.0	102.7	0.8
2	88006ALINE	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.8	102.7	0.6
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.8	102.7	0.6
2	BROADWYST1	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.9	102.7	0.6
2	GRNDV4TSTK	NORWALK	FLAX HIL	1	256	269.8	271.0	103.0	260.5	262.9	102.7	0.3
2	GRNDV7TSTK	NORWALK	FLAX HIL	1	256	269.8	271.0	103.0	260.5	262.9	102.7	0.3
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	269.8	272.1	103.4	260.5	262.7	102.6	0.8
2	1820LINE	NORWALK	FLAX HIL	1	256	269.8	272.0	103.4	260.5	262.5	102.6	0.8
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	269.8	272.0	103.4	260.5	262.7	102.6	0.8
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	269.8	272.0	103.4	260.5	262.8	102.6	0.8
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	269.8	271.6	103.3	260.5	262.7	102.6	0.7
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	269.8	271.8	103.2	260.5	262.6	102.6	0.6
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	262.7	102.6	0.4
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	262.7	102.6	0.4
2	LOBPTENGF	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6				
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	269.8	271.9	103.4	260.5	262.5	102.5	0.9
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	269.8	271.9	103.4	260.5	262.5	102.5	0.9
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	269.8	271.9	103.4	260.5	262.4	102.5	0.9
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	269.8	271.9	103.4	260.5	262.5	102.5	0.9
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	269.8	271.9	103.3	260.5	262.5	102.5	0.8
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.4	102.5	0.8
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.5	102.5	0.8
2	1780LINE	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.3	102.5	0.8
2	1790LINE	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.3	102.5	0.8
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	269.8	271.8	103.3	260.5	262.5	102.5	0.8
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	269.8	271.9	103.3	260.5	262.4	102.5	0.8
2	ESHR-XFR	NORWALK	FLAX HIL	1	256				260.5	262.3	102.5	
2	HADDAM1T	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5				
3	SINGAUT	NORWALK	FLAX HIL	1	256	261.3	276.3	104.1	250.9	262.1	102.4	1.7
2	SCOVK5TSTK	NORWALK	FLAX HIL	1	256	269.8	272.7	103.8	260.5	262.1	102.4	1.4
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	269.8	272.1	103.5	260.5	262.2	102.4	1.1
2	1575LINE	NORWALK	FLAX HIL	1	256	269.8	271.7	103.3	260.5	262.3	102.4	0.9
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	269.8	271.7	103.3	260.5	262.2	102.4	0.9
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	269.8	271.7	103.3	260.5	262.3	102.4	0.9
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	269.8	271.7	103.3	260.5	262.2	102.4	0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	100+400LINES	NORWALK	FLAX HIL	1	256	269.8	271.5	103.2	260.5	262.1	102.4	0.8
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	269.8	271.5	103.2	260.5	262.1	102.4	0.8
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	269.8	271.4	103.2	260.5	262.1	102.4	0.8
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	269.8	271.5	103.2	260.5	262.1	102.4	0.8
2	89006BLINE	NORWALK	FLAX HIL	1	256	269.8	271.5	103.2	260.5	262.2	102.4	0.8
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	269.8	271.4	103.2	260.5	262.1	102.4	0.8
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	269.8	271.5	103.2	260.5	262.1	102.4	0.8
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	262.2	102.4	0.7
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	262.2	102.4	0.7
2	88003ALINE	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	262.1	102.4	0.5
2	89003BLINE	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	262.1	102.4	0.5
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	262.2	102.4	0.5
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	262.2	102.4	0.5
2	310-383DCT	NORWALK	FLAX HIL	1	256	269.8	272.3	103.5	260.5	262.0	102.3	1.2
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	261.3	274.0	103.3	250.9	261.8	102.3	1.0
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	261.9	102.3	0.8
2	1235LINE	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	261.9	102.3	0.8
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	269.8	271.8	103.1	260.5	261.9	102.3	0.8
2	NWALLING1T	NORWALK	FLAX HIL	1	256	269.8	271.1	103.1	260.5	261.8	102.3	0.8
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	269.8	271.8	103.1	260.5	261.9	102.3	0.8
2	1560LINE	NORWALK	FLAX HIL	1	256	269.8	270.8	102.9	260.5	261.8	102.3	0.6
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	262.0	102.3	0.6
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	262.0	102.3	0.6
2	318LINE	NORWALK	FLAX HIL	1	256	269.8	275.3	104.8	260.5	261.7	102.2	2.6
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	269.8	271.1	103.1	260.5	261.7	102.2	0.9
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	269.8	271.0	103.0	260.5	261.7	102.2	0.8
2	1000LINE	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	261.6	102.2	0.8
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	269.8	270.4	102.8	260.5	261.6	102.2	0.6
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	269.8	270.4	102.8	260.5	261.6	102.2	0.6
2	8100LINE	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.6	102.2	0.5
2	8200LINE	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.6	102.2	0.5
2	GRNDAV1TSTK	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.7	102.2	0.5
2	GRNDAV3TSTK	NORWALK	FLAX HIL	1	256	269.8	270.2	102.7	260.5	261.7	102.2	0.5
2	8400LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	261.7	102.2	0.4
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	269.8	269.2	102.3	260.5	261.5	102.2	0.1
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	269.8	269.2	102.3	260.5	261.5	102.2	0.1
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	269.8	275.0	104.7	260.5	261.5	102.1	2.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	269.8	274.7	104.6	260.5	261.4	102.1	2.5
2	1250LINE	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	261.3	102.1	0.8
2	400LINE	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	261.3	102.1	0.8
2	694LINE	NORWALK	FLAX HIL	1	256	269.8	270.8	102.9	260.5	261.5	102.1	0.8
2	1280LINE	NORWALK	FLAX HIL	1	256	269.8	270.5	102.8	260.5	261.3	102.1	0.7
2	8804ALINE	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.4	102.1	0.6
2	8904BLINE	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.4	102.1	0.6
2	362LINE	NORWALK	FLAX HIL	1	256				260.5	261.5	102.1	
2	1610LINE	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	261.2	102.0	1.0
2	1760LINE	NORWALK	FLAX HIL	1	256	269.8	271.0	103.0	260.5	261.1	102.0	1.0
2	667-690LINE	NORWALK	FLAX HIL	1	256	269.8	270.4	102.8	260.5	261.0	102.0	0.8
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	269.8	270.3	102.7	260.5	261.0	102.0	0.7
2	1607LINE	NORWALK	FLAX HIL	1	256	269.8	270.2	102.7	260.5	261.0	102.0	0.7
2	84004LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	261.1	102.0	0.6
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	261.0	102.0	0.6
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	269.8	272.2	103.5	260.5	260.9	101.9	1.6
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	260.9	101.9	1.1
2	1887LINE	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	260.9	101.9	1.0
2	310LINE	NORWALK	FLAX HIL	1	256	269.8	270.8	102.9	260.5	260.9	101.9	1.0
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	260.8	101.9	1.0
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	260.8	101.9	1.0
2	1272LINE	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.8	101.9	0.8
2	1445LINE	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.8	101.9	0.8
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	269.8	270.2	102.7	260.5	261.0	101.9	0.8
2	1585LINE	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.8	101.9	0.8
2	1730BLINE	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.9	101.9	0.8
2	1870LINE	NORWALK	FLAX HIL	1	256	269.8	270.2	102.7	260.5	260.9	101.9	0.8
2	383LINE	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.8	101.9	0.8
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.9	101.9	0.8
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	269.8	270.1	102.7	260.5	260.9	101.9	0.8
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.9	101.9	0.7
2	1640LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.8	101.9	0.7
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.9	101.9	0.7
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.9	101.9	0.7
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.9	101.9	0.7
2	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	261.0	101.9	0.7
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.8	101.9	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1460LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.8	101.9	0.6
2	1537LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.8	101.9	0.6
2	352LINE	NORWALK	FLAX HIL	1	256	269.8	269.1	102.5	260.5	261.0	101.9	0.6
2	8300LINE	NORWALK	FLAX HIL	1	256	269.8	269.5	102.5	260.5	260.9	101.9	0.6
2	312+393LNS	NORWALK	FLAX HIL	1	256	269.8	268.5	102.1	260.5	260.9	101.9	0.2
2	312+393REAC	NORWALK	FLAX HIL	1	256	269.8	268.5	102.1	260.5	260.9	101.9	0.2
2	312LINE	NORWALK	FLAX HIL	1	256	269.8	268.5	102.1	260.5	260.9	101.9	0.2
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	269.8	273.4	103.9	260.5	260.5	101.8	2.1
2	1208LINE	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	260.5	101.8	1.1
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	269.8	270.5	102.9	260.5	260.7	101.8	1.1
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	269.8	270.5	102.9	260.5	260.5	101.8	1.1
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	260.5	101.8	1.1
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	260.5	101.8	1.1
2	1990LINE	NORWALK	FLAX HIL	1	256	269.8	270.4	102.8	260.5	260.6	101.8	1.0
2	1720LINE	NORWALK	FLAX HIL	1	256	269.8	270.4	102.7	260.5	260.6	101.8	0.9
2	1060-1270DCT	NORWALK	FLAX HIL	1	256	269.8	269.7	102.6	260.5	260.5	101.8	0.8
2	1060LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.6	260.5	260.5	101.8	0.8
2	1070LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1090LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1191LINE	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.7	101.8	0.8
2	1200LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1270LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.6	260.5	260.5	101.8	0.8
2	1337LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.6	260.5	260.5	101.8	0.8
2	1410LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1440-1450DCT	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1440LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.7	101.8	0.8
2	1443LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1466LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1490LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1588LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1594LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1655LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1668LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1670-1771DCT	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.7	101.8	0.8
2	1670LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1675LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1704LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1721LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1740LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1753LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1756LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1759LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1765LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1767LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1769LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1771LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	1779LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1785LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1788LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1792LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1825LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1830LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1835LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1900LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	1921LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	8500LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	8700LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	88003ALINE-1	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.7	101.8	0.8
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	89003BLINE-1	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.7	101.8	0.8
2	89005BLINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	9500LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	9502LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.6	101.8	0.8
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	LOSSNOR1	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	LOSSNOR2	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.5	101.8	0.8
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.7	101.8	0.8
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.6	101.8	0.8
2	1100LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.8	0.7
2	1394LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.8	0.7
2	1580LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.6	101.8	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1685LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.6	101.8	0.7
2	1786LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.8	0.7
2	689LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.8	0.7
2	693LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.8	0.7
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.6	101.8	0.7
2	BRANFORD2T	NORWALK	FLAX HIL	1	256	269.8	269.1	102.3	260.5	260.7	101.8	0.5
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				260.5	260.5	101.8	
2	SNG-PEQTAP	NORWALK	FLAX HIL	1	256				260.5	260.5	101.8	
2	SCOVK7TSTK	NORWALK	FLAX HIL	1	256	269.8	267.5	101.8				
2	FROSTBR21T	NORWALK	FLAX HIL	1	256	269.8	270.0	102.7	260.5	260.2	101.7	1.0
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	269.8	270.2	102.7	260.5	260.4	101.7	1.0
2	1261LINE	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.3	101.7	0.9
2	1508LINE	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.3	101.7	0.9
2	1620SLINE	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.3	101.7	0.9
2	1766LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.4	101.7	0.9
2	100LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1050LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.3	101.7	0.8
2	1060-1165DCT	NORWALK	FLAX HIL	1	256	269.8	269.5	102.5	260.5	260.3	101.7	0.8
2	1080-1280DCT	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.4	101.7	0.8
2	1163LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1165LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.5	101.7	0.8
2	1206LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1207LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1310LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.7	0.8
2	1450LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1515LINE	NORWALK	FLAX HIL	1	256	269.8	269.5	102.5	260.5	260.3	101.7	0.8
2	1550LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1572LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1620-1975DCT	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.3	101.7	0.8
2	1620NLINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1625LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.4	101.7	0.8
2	1751LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1752LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1763LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.7	0.8
2	1772LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1775LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	1777-1779DCT	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1777LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8
2	1783LINE	NORWALK	FLAX HIL	1	256	269.8	269.5	102.5	260.5	260.3	101.7	0.8
2	1800-1860LNS	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1810LINE	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.4	101.7	0.8
2	1910LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8
2	1950LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8
2	1975LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.4	101.7	0.8
2	301-302LNS	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8
2	381LINE	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.4	101.7	0.8
2	381LREAC	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.4	101.7	0.8
2	8600LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.5	260.5	260.5	101.7	0.8
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256	269.8	269.7	102.5	260.5	260.5	101.7	0.8
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.3	101.7	0.8
2	1773LINE	NORWALK	FLAX HIL	1	256	269.8	269.4	102.4	260.5	260.3	101.7	0.7
2	1784LINE	NORWALK	FLAX HIL	1	256	269.8	269.4	102.4	260.5	260.3	101.7	0.7
2	HADDAMAT	NORWALK	FLAX HIL	1	256				260.5	260.3	101.7	
2	ORANG-ESHR	NORWALK	FLAX HIL	1	256				260.5	260.4	101.7	
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC		260.5	260.4	101.7	
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	269.8	270.5	102.9	260.5	260.2	101.6	1.3
2	329LINE	NORWALK	FLAX HIL	1	256	269.8	270.0	102.8	260.5	260.1	101.6	1.2
2	1876LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	260.1	101.6	1.0
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	269.8	270.0	102.6	260.5	260.2	101.6	1.0
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	260.2	101.6	1.0
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	269.8	269.6	102.5	260.5	260.2	101.6	0.9
2	1207-1775DCT	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	260.1	101.6	0.8
2	1732LINE	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	260.1	101.6	0.8
2	1751-1777DCT	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	260.0	101.6	0.8
2	1821LINE	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	260.0	101.6	0.8
2	1836LINE	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	260.0	101.6	0.8
2	1570LINE	NORWALK	FLAX HIL	1	256	269.8	269.0	102.3	260.5	260.0	101.6	0.7
2	DEVONTSTK	NORWALK	FLAX HIL	1	256	269.8	269.0	102.3	260.5	260.0	101.6	0.7
2	1570-1580DCT	NORWALK	FLAX HIL	1	256	269.8	268.8	102.2	260.5	260.0	101.6	0.6
2	NORSING1	NORWALK	FLAX HIL	1	256	269.8	267.2	102.0	260.5	260.0	101.6	0.4
2	1342LINE	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	259.9	101.5	1.4
2	BOKUM2T	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	259.7	101.5	1.4
2	BOKUM3T	NORWALK	FLAX HIL	1	256	269.8	270.6	102.9	260.5	259.7	101.5	1.4
2	1630LINE	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	259.9	101.5	1.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	269.8	269.9	102.6	260.5	259.9	101.5	1.1
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	259.9	101.5	1.1
2	88005ALINE-2	NORWALK	FLAX HIL	1	256	269.8	269.5	102.4	260.5	259.9	101.5	0.9
2	89005BLINE-2	NORWALK	FLAX HIL	1	256	269.8	269.5	102.4	260.5	260.0	101.5	0.9
2	1726LINE	NORWALK	FLAX HIL	1	256	269.8	269.1	102.3	260.5	259.8	101.5	0.8
2	500LINE	NORWALK	FLAX HIL	1	256	269.8	269.2	102.3	260.5	259.9	101.5	0.8
2	DEVSING1	NORWALK	FLAX HIL	1	256	269.8	268.7	102.2	260.5	259.9	101.5	0.7
3	1310-1763DCT	NORWALK	FLAX HIL	1	256	261.3	270.5	102.0	250.9	260.0	101.5	0.5
2	364+AUTO	NORWALK	FLAX HIL	1	256	269.8	266.9	101.5				
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	269.8	269.8	102.7	260.5	259.6	101.4	1.3
2	1618LINE	NORWALK	FLAX HIL	1	256	269.8	269.2	102.4	260.5	259.6	101.4	1.0
2	1080-1490DCT	NORWALK	FLAX HIL	1	256	269.8	268.9	102.2	260.5	259.7	101.4	0.8
2	1080LINE	NORWALK	FLAX HIL	1	256	269.8	268.9	102.2	260.5	259.7	101.4	0.8
2	1545LINE	NORWALK	FLAX HIL	1	256	269.8	268.3	102.0	260.5	259.5	101.4	0.6
2	WESTON1T	NORWALK	FLAX HIL	1	256	269.8	268.6	101.9	260.5	259.6	101.4	0.5
2	SINGERSTK	NORWALK	FLAX HIL	1	256				260.5	259.5	101.4	
2	362WLINE	NORWALK	FLAX HIL	1	256	269.8	266.7	101.4				
2	310-368DCT	NORWALK	FLAX HIL	1	256	269.8	270.7	102.9	260.5	259.4	101.3	1.6
2	368LINE	NORWALK	FLAX HIL	1	256	269.8	269.3	102.4	260.5	259.4	101.3	1.1
2	393LINE	NORWALK	FLAX HIL	1	256	269.8	267.1	101.5	260.5	259.3	101.3	0.2
2	1261-1620DCT	NORWALK	FLAX HIL	1	256	269.8	270.9	103.0	260.5	259.0	101.2	1.8
2	1238+1813LNS	NORWALK	FLAX HIL	1	256	269.8	268.6	102.1	260.5	258.9	101.2	0.9
2	ONE1385	NORWALK	FLAX HIL	1	256	269.8	268.0	101.9	260.5	259.0	101.2	0.7
2	BOKUM1T	NORWALK	FLAX HIL	1	256				260.5	259.0	101.2	
2	HADDAMBT	NORWALK	FLAX HIL	1	256				260.5	259.0	101.2	
2	362W-376DCT	NORWALK	FLAX HIL	1	256	269.8	266.1	101.2				
3	EDEVDEV1	NORWALK	FLAX HIL	1	256	261.3	268.3	101.2				
2	HADNKSTBKR	NORWALK	FLAX HIL	1	256	269.8	266.1	101.2				
2	376LINE	NORWALK	FLAX HIL	1	256	269.8	271.6	103.3	260.5	258.7	101.1	2.2
2	1300LINE	NORWALK	FLAX HIL	1	256	269.8	268.0	101.9	260.5	258.8	101.1	0.8
2	1545+SPS	NORWALK	FLAX HIL	1	256	269.8	267.1	101.6	260.5	258.8	101.1	0.5
2	353LINE	NORWALK	FLAX HIL	1	256	269.8	265.9	101.1				
2	SGTN7TSTK	NORWALK	FLAX HIL	1	256	269.8	271.2	103.1	260.5	258.3	100.9	2.2
2	371-383DCT	NORWALK	FLAX HIL	1	256	269.8	269.8	102.6	260.5	258.3	100.9	1.7
2	SHEPAUG13A	NORWALK	FLAX HIL	1	256	269.8	267.9	101.9	260.5	258.4	100.9	1.0
2	1622-1887DCT	NORWALK	FLAX HIL	1	256	269.8	267.9	101.8	260.5	258.4	100.9	0.9
2	1813LINE	NORWALK	FLAX HIL	1	256	269.8	267.9	101.8	260.5	258.2	100.9	0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1722LINE	NORWALK	FLAX HIL	1	256	269.8	267.5	101.7	260.5	258.2	100.9	0.8
2	1730CLINE	NORWALK	FLAX HIL	1	256	269.8	267.0	101.5	260.5	258.3	100.9	0.6
2	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	269.8	267.0	101.5	260.5	258.3	100.9	0.6
2	1470-1720DCT	NORWALK	FLAX HIL	1	256	269.8	266.4	100.9				
2	1470LINE	NORWALK	FLAX HIL	1	256	269.8	265.9	100.9				
2	1767-353DCT	NORWALK	FLAX HIL	1	256	269.8	265.5	100.9				
2	353+AUTO	NORWALK	FLAX HIL	1	256	269.8	265.5	100.9				
2	NORWALKST1	NORWALK	FLAX HIL	1	256	269.8	266.4	100.9				
2	DEVON23TSTK	NORWALK	FLAX HIL	1	256	269.8	267.8	101.8	260.5	258.0	100.8	1.0
2	DEVON25TSTK	NORWALK	FLAX HIL	1	256	269.8	267.8	101.8	260.5	258.0	100.8	1.0
2	1622LINE	NORWALK	FLAX HIL	1	256	269.8	267.2	101.6	260.5	258.1	100.8	0.8
2	1238LINE	NORWALK	FLAX HIL	1	256	269.8	267.3	101.7	260.5	257.8	100.7	1.0
2	329-352DCT	NORWALK	FLAX HIL	1	256	269.8	266.8	101.7	260.5	257.8	100.7	1.0
2	352+AUTO	NORWALK	FLAX HIL	1	256	269.8	266.8	101.7	260.5	257.8	100.7	1.0
2	310-348DCT	NORWALK	FLAX HIL	1	256	269.8	263.6	100.2	260.5	257.8	100.7	-0.5
3	318LINE	NORWALK	FLAX HIL	1	256	261.3	266.9	100.7				
2	371LINE	NORWALK	FLAX HIL	1	256	269.8	268.2	102.0	260.5	257.5	100.6	1.4
2	348+AUTO	NORWALK	FLAX HIL	1	256	269.8	268.1	101.9	260.5	257.6	100.6	1.3
3	1770-1887DCT	NORWALK	FLAX HIL	1	256	261.3	268.6	101.2	250.9	257.6	100.6	0.6
3	STONYHILL1T	NORWALK	FLAX HIL	1	256	261.3	268.6	101.2	250.9	257.6	100.6	0.6
3	SGTN3TSTK	NORWALK	FLAX HIL	1	256	261.3	266.6	100.6				
3	SGTN4TSTK	NORWALK	FLAX HIL	1	256	261.3	266.3	100.6				
2	371+AUTO	NORWALK	FLAX HIL	1	256	269.8	268.1	101.9	260.5	257.3	100.5	1.4
2	SGTN1TSTK	NORWALK	FLAX HIL	1	256	269.8	268.0	101.9	260.5	257.4	100.5	1.4
2	348LINE	NORWALK	FLAX HIL	1	256	269.8	267.2	101.6	260.5	257.3	100.5	1.1
2	PEQUON42TSTK	NORWALK	FLAX HIL	1	256	269.8	266.5	101.5	260.5	257.3	100.5	1.0
2	1637-1720DCT	NORWALK	FLAX HIL	1	256	269.8	267.6	101.4	260.5	257.2	100.5	0.9
2	1637LINE	NORWALK	FLAX HIL	1	256	269.8	267.1	101.4	260.5	257.4	100.5	0.9
2	1975-348DCT	NORWALK	FLAX HIL	1	256	269.8	266.7	101.4	260.5	257.3	100.5	0.9
3	347LREAC	NORWALK	FLAX HIL	1	256	261.3	268.0	101.1	250.9	257.4	100.5	0.6
3	347LINE	NORWALK	FLAX HIL	1	256	261.3	267.9	101.0	250.9	257.4	100.5	0.5
3	TRIANGLE4T	NORWALK	FLAX HIL	1	256	261.3	267.6	100.8	250.9	256.9	100.4	0.4
3	BATESROCK1T	NORWALK	FLAX HIL	1	256	261.3	266.3	100.4				
2	DEVON3TSTK	NORWALK	FLAX HIL	1	256	269.8	264.0	100.4				
2	LOSSBPT3	NORWALK	FLAX HIL	1	256	269.8	263.7	100.4				
2	1759-353DCT	NORWALK	FLAX HIL	1	256	269.8	267.6	101.7	260.5	256.8	100.3	1.4
2	DEVON26TSTK	NORWALK	FLAX HIL	1	256	269.8	266.3	101.2	260.5	256.8	100.3	0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	PLUMAUT	NORWALK	FLAX HIL	1	256	269.8	265.6	101.0	260.5	256.7	100.3	0.7
3	STEVENSNSTK	NORWALK	FLAX HIL	1	256	261.3	267.9	101.0	250.9	256.8	100.3	0.7
3	1163-1550D-2	NORWALK	FLAX HIL	1	256	261.3	267.6	100.9	250.9	256.8	100.3	0.6
3	1800-1810DCT	NORWALK	FLAX HIL	1	256	261.3	267.5	100.9	250.9	256.7	100.3	0.6
3	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	261.3	267.5	100.9	250.9	256.7	100.3	0.6
3	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	261.3	267.6	100.9	250.9	256.8	100.3	0.6
2	1545-1570DCT	NORWALK	FLAX HIL	1	256	269.8	264.4	100.8	260.5	256.9	100.3	0.5
2	DEVON6TSTK	NORWALK	FLAX HIL	1	256	269.8	264.4	100.8	260.5	256.9	100.3	0.5
2	362-376DCT	NORWALK	FLAX HIL	1	256				260.5	256.7	100.3	
2	CARD2TSTK	NORWALK	FLAX HIL	1	256	269.8	266.2	101.2	260.5	256.6	100.2	1.0
2	LOSSDEV7	NORWALK	FLAX HIL	1	256	269.8	266.2	101.2	260.5	256.6	100.2	1.0
3	310-383DCT	NORWALK	FLAX HIL	1	256	261.3	265.6	100.2				
3	1505-1607DCT	NORWALK	FLAX HIL	1	256	261.3	266.7	100.6	250.9	256.2	100.1	0.5
3	MIXAVE1	NORWALK	FLAX HIL	1	256	261.3	265.9	100.3	250.9	256.3	100.1	0.2
3	1560-1570DCT	NORWALK	FLAX HIL	1	256	261.3	265.5	100.1				
3	1800-1825DCT	NORWALK	FLAX HIL	1	256	261.3	265.4	100.1				
3	COLONY1T	NORWALK	FLAX HIL	1	256	261.3	265.4	100.1				
2	MONTVSTBKR	NORWALK	FLAX HIL	1	256	269.8	267.0	101.5	260.5	256.0	100.0	1.5
3	1470-1565DCT	NORWALK	FLAX HIL	1	256	261.3	265.9	100.0				
3	PEACEABLE1T	NORWALK	FLAX HIL	1	256	261.3	265.9	100.0				
5	LONGMT5TSTK	NRTHPT P	NRTHPRT1	1	450				201.3	481.8	107.1	
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	186.1	434.5	159.6	176.8	418.3	159.1	0.5
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	157.4	412.8	151.6	149.0	399.5	151.9	-0.3
4	113091001DCT	NWLK HAR	ELYAVE	1	263	157.4	294.4	108.3	149.0	285.3	108.5	-0.2
5	113091001DCT	NWLK HAR	ELYAVE	1	263	186.1	293.6	108.0	176.8	284.0	108.0	0.0
5	91001LINE	NWLK HAR	ELYAVE	1	263	186.1	276.8	101.8	176.8	267.1	101.5	0.3
5	NORWALKST2	NWLK HAR	ELYAVE	1	263	186.1	278.1	102.2	176.8	265.2	100.9	1.3
5	1416-1880DCT	NWLK HAR	ELYAVE	1	263	186.1	276.8	101.7	176.8	264.6	100.6	1.1
5	1880-1977DCT	NWLK HAR	ELYAVE	1	263	186.1	276.3	101.5	176.8	264.2	100.4	1.1
5	GLENBROOK3T	NWLK HAR	ELYAVE	1	263	186.1	274.3	100.8				
5	1880LINE	NWLK HAR	ELYAVE	1	263	186.1	274.1	100.7				
5	1416-1867DCT	NWLK HAR	ELYAVE	1	263	186.1	273.9	100.6				
5	1867-1977DCT	NWLK HAR	ELYAVE	1	263	186.1	274.0	100.6				
5	1867LINE	NWLK HAR	ELYAVE	1	263	186.1	272.4	100.1				

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	192.6	328.6	104.4	188.8	316.9	104.3	0.1
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	179.4	328.3	104.3	172.6	316.8	104.2	0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.4	284.5	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	357.2	283.5	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	357.2	283.5	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		57.8	356.0	282.5	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.2	181.2	58.1	228.4	181.3	-0.1
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	179.9	58.0	227.8	180.8	-0.9
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	180.0	58.0	227.6	180.7	-0.7
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	179.8	57.8	227.1	180.2	-0.4
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	245.9	178.2	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.5	242.1	175.4	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.5	241.6	175.1	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.3	237.1	171.8	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.1	104.9	79.7	145.0	105.0	-0.1
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.1	79.5	144.5	104.7	-0.6
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.1	79.5	144.4	104.6	-0.5
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.0	79.3	144.0	104.3	-0.3
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.9	100.7	79.7	139.0	100.7	0.0
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.1	79.5	138.7	100.5	-0.4
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.1	79.5	138.6	100.4	-0.3
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.3	138.3	100.2	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.9	135.2	84.3	224.5	135.3	-0.1
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.7	134.2	84.1	224.0	134.9	-0.7
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.3	84.0	223.8	134.8	-0.5
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.7	134.1	83.8	223.3	134.5	-0.4
2	1416-1867DCT	RYTN J A	NORWALK	1	256	251.6	479.2	183.1	242.7	466.6	182.3	0.8
2	1867-1890DCT	RYTN J A	NORWALK	1	256	251.6	471.2	180.0	242.7	453.8	177.3	2.7
3	1416-1867DCT	RYTN J A	NORWALK	1	256	242.2	468.9	177.3	232.7	453.3	177.1	0.2
3	1867-1890DCT	RYTN J A	NORWALK	1	256	242.2	462.7	174.8	232.7	443.4	173.2	1.6
2	113091001DCT	RYTN J A	NORWALK	1	256	251.6	414.8	158.7	242.7	405.3	158.3	0.4
2	1389LINE	RYTN J A	NORWALK	1	256	251.6	417.2	158.7	242.7	402.6	157.2	1.5
3	113091001DCT	RYTN J A	NORWALK	1	256	242.2	410.1	155.6	232.7	400.5	156.4	-0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1389LINE	RYTN J A	NORWALK	1	256	242.2	404.6	152.3	232.7	387.5	151.4	0.9
2	1130-1430DCT	RYTN J A	NORWALK	1	256	251.6	382.2	145.9	242.7	372.2	145.4	0.5
2	1416-1890DCT	RYTN J A	NORWALK	1	256	251.6	379.6	145.0	242.7	369.9	144.5	0.5
3	1130-1430DCT	RYTN J A	NORWALK	1	256	242.2	377.5	142.9	232.7	367.6	143.6	-0.7
3	1416-1890DCT	RYTN J A	NORWALK	1	256	242.2	375.2	142.1	232.7	365.5	142.8	-0.7
2	1130LINE	RYTN J A	NORWALK	1	256	251.6	307.4	117.1	242.7	298.1	116.4	0.7
2	1430LINE	RYTN J A	NORWALK	1	256	251.6	301.7	114.8	242.7	292.3	114.2	0.6
3	1130LINE	RYTN J A	NORWALK	1	256	242.2	299.7	113.2	232.7	289.9	113.3	-0.1
2	1130+1416LNS	RYTN J A	NORWALK	1	256	251.6	297.9	113.4	242.7	288.7	112.8	0.6
2	1416LINE	RYTN J A	NORWALK	1	256	251.6	296.2	112.8	242.7	286.3	111.8	1.0
3	1430LINE	RYTN J A	NORWALK	1	256	242.2	294.5	111.1	232.7	285.1	111.4	-0.3
3	1130+1416LNS	RYTN J A	NORWALK	1	256	242.2	290.1	109.6	232.7	280.5	109.6	0.0
3	1416LINE	RYTN J A	NORWALK	1	256	242.2	288.5	108.9	232.7	278.3	108.7	0.2
3	1460-387DCT	RYTN J A	NORWALK	1	256				232.7	262.8	102.7	
2	1460-387DCT	RYTN J A	NORWALK	1	256	251.6	274.4	104.5	242.7	259.6	101.4	3.1
4	1867-1890DCT	RYTN J A	NWLK HAR	1	256	179.2	408.4	143.5	175.6	397.8	145.2	-1.7
5	1867-1890DCT	RYTN J A	NWLK HAR	1	256	166.3	408.2	143.5	159.4	394.0	143.8	-0.3
2	1867-1977DCT	RYTN J A	NORWALK	1	256	251.6	452.1	172.6	242.7	439.3	171.6	1.0
3	1867-1977DCT	RYTN J A	NORWALK	1	256	242.2	441.6	166.9	232.7	426.2	166.5	0.4
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	251.6	400.9	152.5	242.7	385.7	150.7	1.8
2	1867LINE	RYTN J A	NORWALK	1	256	251.6	386.5	147.3	242.7	371.4	145.1	2.2
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	251.6	386.5	147.3	242.7	371.4	145.1	2.2
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	242.2	388.6	146.3	232.7	371.2	145.0	1.3
3	1867LINE	RYTN J A	NORWALK	1	256	242.2	373.6	141.0	232.7	356.7	139.3	1.7
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	242.2	373.6	141.0	232.7	356.7	139.3	1.7
2	1890-1977DCT	RYTN J A	NORWALK	1	256	251.6	355.6	135.7	242.7	346.0	135.1	0.6
3	1890-1977DCT	RYTN J A	NORWALK	1	256	242.2	351.4	132.9	232.7	341.7	133.5	-0.6
2	91001LINE	RYTN J A	NORWALK	1	256	251.6	327.8	125.0	242.7	318.3	124.3	0.7
3	91001LINE	RYTN J A	NORWALK	1	256	242.2	320.8	121.2	232.7	310.7	121.4	-0.2
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	251.6	307.1	116.8	242.7	297.6	116.2	0.6
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				242.7	294.7	115.1	
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	242.2	299.9	113.2	232.7	290.1	113.3	-0.1
2	SASCOCR1T	RYTN J A	NORWALK	1	256	251.6	297.3	113.1	242.7	287.4	112.3	0.8
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	251.6	296.5	112.8	242.7	287.1	112.2	0.6
2	1890LINE	RYTN J A	NORWALK	1	256	251.6	296.6	112.9	242.7	286.7	112.0	0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	251.6	296.6	112.9	242.7	286.7	112.0	0.9
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				232.7	285.3	111.5	
3	SASCOCR1T	RYTN J A	NORWALK	1	256	242.2	290.5	109.6	232.7	280.3	109.5	0.1
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	242.2	289.7	109.3	232.7	279.9	109.3	0.0
3	1890LINE	RYTN J A	NORWALK	1	256	242.2	289.8	109.4	232.7	279.6	109.2	0.2
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	242.2	289.8	109.3	232.7	279.6	109.2	0.1
2	DARIEN1T	RYTN J A	NORWALK	1	256	251.6	285.6	108.6	242.7	276.5	108.0	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	251.6	282.4	107.5	242.7	273.3	106.8	0.7
2	1977LINENEW	RYTN J A	NORWALK	1	256	251.6	281.8	107.2	242.7	272.7	106.5	0.7
3	DARIEN1T	RYTN J A	NORWALK	1	256	242.2	277.8	104.9	232.7	268.5	104.9	0.0
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	242.2	274.7	103.7	232.7	265.3	103.6	0.1
3	1977LINENEW	RYTN J A	NORWALK	1	256	242.2	274.0	103.4	232.7	264.6	103.4	0.0
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	251.6	273.2	103.9	242.7	263.6	103.0	0.9
3	387LINE	RYTN J A	NORWALK	1	256				232.7	263.0	102.7	
2	8100-8200DCT	RYTN J A	NORWALK	1	256				242.7	261.0	102.0	
3	SCOVK8TSTK	RYTN J A	NORWALK	1	256				232.7	261.2	102.0	
2	387LINE	RYTN J A	NORWALK	1	256				242.7	260.0	101.6	
2	SCOVK8TSTK	RYTN J A	NORWALK	1	256				242.7	257.0	100.4	
2	387+AUTOS	RYTN J A	NORWALK	1	256	251.6	274.5	104.5				
2	SINGAUT	RYTN J A	NORWALK	1	256	251.6	268.3	101.9				
3	SOUTHEND5T	RYTN J A	NORWALK	1	256	242.2	265.4	100.1				
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				154.5	260.3	102.9	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				153.2	259.8	102.7	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.3	365.6	123.2	112.7	356.0	123.2	0.0
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.5	365.6	123.2	112.9	356.0	123.2	0.0
4	1440-1450DCT	SO.END	GLNBRK J	1	289	113.0	365.6	123.2	109.5	356.0	123.2	0.0
5	1440-1450DCT	SO.END	GLNBRK J	1	289	112.2	365.6	123.2	108.7	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				271.7	649.6	111.0	
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				272.1	639.5	109.3	
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				257.8	588.7	100.6	
4	DEVON2TSTK	TRMB J A	PEQUONIC	1	231				58.4	233.0	100.8	
2	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	42.9	282.6	100.7				
5	GRNDAV2TSTK	WATER ST	WEST RIV	1	273	49.4	281.2	100.2				
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	0.0
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	69.9	298.4	124.8	0.0
5	SOUTHEND6T	WATERSDE	COS COB	1	239	72.0	299.0	124.8	70.0	298.4	124.8	0.0

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x			East Shore Alternative (PowerGEM) Cases 18B-21B			Difference in % Overload
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.8	102.5	0.0
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.6	367.3	102.5	132.4	360.8	102.5	0.0
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.1	367.3	102.5	132.9	360.8	102.5	0.0
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	133.0	360.8	102.5	0.0

Appendix E2
Voltage Results
New Haven Harbor On, NY-NE=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

New Haven Harbor On at 447 MW - Dispatches #2, 3, 4 & 5 - NY to NE Transfer = 700 MW

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x		East Shore Alternative (PowerGEM) Cases 18B-21B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	1545-1570DCT	ANSONIA	115	1.006	0.894		
2	DEVON6TSTK	ANSONIA	115	1.006	0.894		
5	1272-1721DCT	BALDWINB	115	1.010	0.875	1.008	0.865
2	1272-1721DCT	BALDWINB	115	1.009	0.881	1.009	0.877
4	1272-1721DCT	BALDWINB	115	1.011	0.885	1.008	0.885
3	1272-1721DCT	BALDWINB	115	1.012	0.885	1.010	0.885
5	BUNKERH2T	BALDWINB	115			1.008	0.897
5	1272-1721DCT	BCNFL PF	115			0.998	0.895
3	BRANFORD4T	BRANFORD	115	1.035	1.055	1.032	1.053
4	BRANFORD4T	BRANFORD	115	1.035	1.055	1.035	1.054
5	1272-1721DCT	BUNKER H	115	1.020	0.875	1.019	0.866
2	1272-1721DCT	BUNKER H	115	1.018	0.881	1.019	0.877
4	1272-1721DCT	BUNKER H	115	1.021	0.885	1.017	0.885
3	1272-1721DCT	BUNKER H	115	1.021	0.885	1.020	0.885
5	BUNKERH2T	BUNKER H	115			1.019	0.899

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x		East Shore Alternative (PowerGEM) Cases 18B-21B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	GRNDAV7TSTK	ELMWST A	115	1.030	0.881	1.028	0.897
5	WRIVER1TSTK	ELMWST A	115	1.030	0.883	1.028	0.898
2	GRNDAV7TSTK	ELMWST A	115	1.030	0.886		
5	GRNDAV6TSTK	ELMWST A	115	1.030	0.887		
2	WRIVER1TSTK	ELMWST A	115	1.030	0.887		
2	GRNDAV6TSTK	ELMWST A	115	1.030	0.890		
3	WRIVER1TSTK	ELMWST A	115	1.034	0.892		
3	GRNDAV7TSTK	ELMWST A	115	1.034	0.893		
4	WRIVER1TSTK	ELMWST A	115	1.034	0.895		
4	GRNDAV7TSTK	ELMWST A	115	1.034	0.896		
3	GRNDAV6TSTK	ELMWST A	115	1.034	0.897		
4	GRNDAV6TSTK	ELMWST A	115	1.034	0.900		
5	GRNDAV4TSTK	ELMWST B	115	1.030	0.878	1.028	0.895
5	WRIVER2TSTK	ELMWST B	115	1.030	0.880	1.028	0.896
5	GRNDAV5TSTK	ELMWST B	115	1.030	0.882	1.028	0.900
2	GRNDAV4TSTK	ELMWST B	115	1.030	0.883		
2	WRIVER2TSTK	ELMWST B	115	1.030	0.884		
2	GRNDAV5TSTK	ELMWST B	115	1.030	0.888		
3	WRIVER2TSTK	ELMWST B	115	1.034	0.890		
3	GRNDAV4TSTK	ELMWST B	115	1.034	0.890		
4	WRIVER2TSTK	ELMWST B	115	1.034	0.893		
4	GRNDAV4TSTK	ELMWST B	115	1.034	0.893		
3	GRNDAV5TSTK	ELMWST B	115	1.034	0.894		
4	GRNDAV5TSTK	ELMWST B	115	1.034	0.897		

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-x		East Shore Alternative (PowerGEM) Cases 18B-21B	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
5	1272-1721DCT	FREIGHT	115	1.021	0.873	1.020	0.864
2	1272-1721DCT	FREIGHT	115	1.020	0.880	1.020	0.876
4	1272-1721DCT	FREIGHT	115	1.023	0.884	1.019	0.884
3	1272-1721DCT	FREIGHT	115	1.023	0.884	1.021	0.884
2	1545-1570DCT	IND.WELL	115	1.006	0.884		
2	DEVON6TSTK	IND.WELL	115	1.006	0.884		
3	NOHAVN2TSTK	NO.HAVEN	115	1.043	1.053	1.042	1.051
4	NOHAVN2TSTK	NO.HAVEN	115	1.044	1.053	1.043	1.054
5	1272-1721DCT	SO.NAUG	115			1.008	0.896

Appendix F1
Thermal Results
New Haven Harbor Off, NY-NE=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Worst Case Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

**Kleen Energy Dispatched in Place of New Haven Harbor - NY to NE Transfer = 700 MW
Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 22, 23, 24 & 25 (PowerGEM)**

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1618-321DCT	BALDWNJA	FROST BR	1	287	171.3	318.3	110.9				167.5	308.7	107.6	3.3
2	1618-321DCT	BALDWNJA	STEVENS N	1	282	140.9	288.2	102.2							
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.7	133.1	131.9	22.0	149.4	133.4	20.4	149.4	133.4	-1.5
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439				274.1	440.0	100.2	274.7	441.3	100.5	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	43.3	122.2	108.2							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	232.1	480.5	183.8	222.9	467.6	182.7	224.2	470.2	183.7	0.1
2	1460-387DCT	GLEN JCT	SOUTHG TN	1	228				133.3	253.1	111.0	129.2	253.0	111.0	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.4	447.1	155.1	172.1	431.7	154.7	172.1	431.7	154.7	0.4
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	186.5	471.2	103.8	179.3	454.1	103.4	179.3	454.0	103.4	0.4
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	171.6	447.8	150.0	165.1	430.8	149.1	165.1	430.7	149.0	1.0
5	1620SLINE	HADDAM	BOKUM	1	165	100.8	176.4	107.5	110.7	196.3	119.0	109.0	193.3	117.2	-9.7
2	1261LINE	HADDAM	BOKUM	2	191				113.6	197.5	103.4	111.8	194.5	101.8	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.5	226.5	22.5	303.3	226.4	
5	LONGMT5STK	NORHR138	NWLK HAR	1	402	209.4	439.4	109.3	206.7	499.1	124.1	207.0	492.5	122.5	-13.2
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	276.9	526.2	201.1	266.5	511.9	200.0	267.9	514.5	201.0	0.1
5	LONGMT5STK	NRTHPT P	NRTHPRT1	1	263				201.2	508.0	112.9	201.6	501.2	111.4	
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	194.8	440.8	161.9	182.0	422.5	160.7	182.0	422.6	160.7	1.2
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	175.0	328.1	104.3	170.1	317.5	104.4	170.2	317.4	104.4	-0.1
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.2	362.8	288.0	58.2	362.6	287.8	
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.8	261.1	189.2	79.7	260.4	188.7	
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	225.0	135.4	84.4	224.7	135.4	84.3	224.6	135.3	0.1
2	1416-1867DCT	RYTN J A	NORWALK	1	256	258.7	488.0	186.7	248.9	474.9	185.5	250.2	477.5	186.5	0.2
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	161.9	407.6	143.4	156.6	394.2	143.9	156.7	394.3	143.9	-0.5
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1345.8	1813.9	113.1				
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				165.1	279.3	110.4	163.0	275.4	108.8	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.1	365.6	123.2	112.5	356.0	123.2	112.6	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHG TN	SGTN B	2	585				279.0	681.4	116.5	277.1	670.7	114.6	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.5	360.8	102.5	132.5	360.8	102.5	0.0
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	198.1	291.7	118.0							

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Thermal Overload Summary

Comparison of Middletown-Norwalk and East Shore Alternatives
 Kleen Energy Dispatched in Place of New Haven Harbor - NY to NE Transfer = 700 MW
 Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 22, 23, 24 & 25 (PowerGEM)

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1618-321DCT	BALDWNJA	FROST BR	1	287	171.3	318.3	110.9				167.5	308.7	107.6	3.3
2	1887-321DCT	BALDWNJA	FROST BR	1	287	171.3	305.6	106.5				167.5	296.1	103.2	3.3
2	321LINE	BALDWNJA	FROST BR	1	287	171.3	289.0	100.7							
2	1618-321DCT	BALDWNJA	STEVENS N	1	282	140.9	288.2	102.2							
5	1272-1721DCT	BCNFL PF	DRBY J B	1	112	10.7	133.1	131.9	22.0	149.4	133.4	20.4	149.4	133.4	-1.5
2	1272-1721DCT	BCNFL PF	DRBY J B	1	112	11.5	132.4	130.0	24.1	147.0	131.3	22.6	146.6	130.9	-0.9
3	1272-1721DCT	BCNFL PF	DRBY J B	1	112	17.5	131.1	128.0	10.1	143.5	128.1	10.5	143.4	128.1	-0.1
4	1272-1721DCT	BCNFL PF	DRBY J B	1	112	32.7	130.2	127.2	25.0	142.2	127.0	25.8	142.2	126.9	0.3
5	BUNKERH2T	BCNFL PF	DRBY J B	1	112	10.7	111.6	107.6	22.0	122.9	109.7	20.4	122.7	109.6	-2.0
2	BUNKERH2T	BCNFL PF	DRBY J B	1	112	11.5	111.0	106.4	24.1	120.8	107.9	22.6	120.5	107.6	-1.2
3	BUNKERH2T	BCNFL PF	DRBY J B	1	112	17.5	109.9	104.9	10.1	117.3	104.7	10.5	117.2	104.7	0.2
4	BUNKERH2T	BCNFL PF	DRBY J B	1	112	32.7	108.8	103.9	25.0	116.0	103.6	25.8	116.0	103.5	0.4
3	1389-1880DCT	CRRA JCT	ASHCREEK	1	439				274.1	440.0	100.2	274.7	441.3	100.5	
2	1389-1880DCT	CRRA JCT	ASHCREEK	1								265.5	439.7	100.2	
5	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	43.3	122.2	108.2							
2	SGTN7TSTK	E.MERIDN	NO.WALLF	1	112	42.3	120.2	106.1							
2	1416-1880DCT	FLAX HIL	RYTN J B	1	256	232.1	480.5	183.8	222.9	467.6	182.7	224.2	470.2	183.7	0.1
3	1416-1880DCT	FLAX HIL	RYTN J B	1	256	220.7	467.3	177.6	211.5	452.6	176.8	212.5	454.4	177.5	0.1
2	1880-1977DCT	FLAX HIL	RYTN J B	1	256	232.1	453.5	173.3	222.9	440.4	172.0	224.2	442.9	173.0	0.3
3	1880-1977DCT	FLAX HIL	RYTN J B	1	256	220.7	440.2	167.1	211.5	425.5	166.2	212.5	427.3	166.9	0.2
2	113091001DCT	FLAX HIL	RYTN J B	1	256	232.1	389.6	149.0	222.9	382.1	149.3	224.2	384.0	150.0	-1.0
3	113091001DCT	FLAX HIL	RYTN J B	1	256	220.7	382.7	145.6	211.5	375.8	146.8	212.5	377.2	147.3	-1.7
2	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	232.1	388.9	148.3	222.9	374.5	146.3	224.2	376.7	147.1	1.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1880LINE	FLAX HIL	RYTN J B	1	256	232.1	388.7	148.2	222.9	372.1	145.4	224.2	374.3	146.2	2.0
2	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	232.1	388.7	148.2	222.9	372.1	145.4	224.2	374.3	146.2	2.0
2	NORWALKST2	FLAX HIL	RYTN J B	1	256	232.1	388.4	147.9	222.9	371.0	144.9	224.2	373.2	145.8	2.1
3	GLENBROOK3T	FLAX HIL	RYTN J B	1	256	220.7	373.5	141.5	211.5	357.1	139.5	212.5	358.7	140.1	1.4
3	1880LINE	FLAX HIL	RYTN J B	1	256	220.7	373.3	141.4	211.5	355.6	138.9	212.5	357.2	139.5	1.9
3	NORWLKHAR4T	FLAX HIL	RYTN J B	1	256	220.7	373.3	141.4	211.5	355.6	138.9	212.5	357.2	139.5	1.9
3	NORWALKST2	FLAX HIL	RYTN J B	1	256	220.7	371.4	140.5	211.5	352.8	137.8	212.5	354.4	138.4	2.1
2	1880-1890DCT	FLAX HIL	RYTN J B	1	256	232.1	365.4	139.7	222.9	353.6	138.1	224.2	353.4	138.1	1.6
2	1130-1430DCT	FLAX HIL	RYTN J B	1	256	232.1	357.1	136.2	222.9	349.2	136.4	224.2	351.0	137.1	-0.9
2	1416-1890DCT	FLAX HIL	RYTN J B	1	256	232.1	353.7	135.1	222.9	346.2	135.2	224.2	348.0	136.0	-0.9
3	1130-1430DCT	FLAX HIL	RYTN J B	1	256	220.7	350.3	132.9	211.5	343.2	134.1	212.5	344.5	134.6	-1.7
3	1880-1890DCT	FLAX HIL	RYTN J B	1	256	220.7	355.5	134.9	211.5	342.7	133.9	212.5	342.7	133.9	1.0
3	1416-1890DCT	FLAX HIL	RYTN J B	1	256	220.7	347.4	131.9	211.5	340.4	133.0	212.5	341.8	133.5	-1.6
2	1890-1977DCT	FLAX HIL	RYTN J B	1	256	232.1	330.0	125.9	222.9	322.4	125.9	224.2	324.2	126.7	-0.8
3	1890-1977DCT	FLAX HIL	RYTN J B	1	256	220.7	323.8	122.8	211.5	316.8	123.8	212.5	318.2	124.3	-1.5
2	91001LINE	FLAX HIL	RYTN J B	1	256	232.1	305.9	116.6	222.9	297.1	116.1	224.2	298.7	116.7	-0.1
3	91001LINE	FLAX HIL	RYTN J B	1	256	220.7	296.8	112.5	211.5	288.2	112.6	212.5	289.4	113.0	-0.5
2	1130LINE	FLAX HIL	RYTN J B	1	256	232.1	285.6	108.8	222.9	276.7	108.1	224.2	278.2	108.7	0.1
2	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	232.1	285.3	108.5	222.9	276.5	108.0	224.2	278.1	108.6	-0.1
2	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	232.1	291.0	110.8	222.9	277.0	108.2	224.2	276.8	108.1	2.7
2	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				222.9	274.2	107.1	224.2	275.8	107.7	
2	1430LINE	FLAX HIL	RYTN J B	1	256	232.1	280.1	106.5	211.5	262.8	102.7	224.2	273.0	106.7	-0.2
3	ASHCREEKBKR	FLAX HIL	RYTN J B	1	256	220.7	276.2	104.5	211.5	267.8	104.6	212.5	268.9	105.0	-0.5
2	1130+1416LNS	FLAX HIL	RYTN J B	1	256	232.1	276.1	105.2	222.9	267.4	104.4	224.2	268.8	105.0	0.2
3	1130LINE	FLAX HIL	RYTN J B	1	256	220.7	275.8	104.5	211.5	267.2	104.4	212.5	268.2	104.8	-0.3
2	SASCOCR1T	FLAX HIL	RYTN J B	1	256	232.1	275.1	104.7	222.9	266.1	103.9	224.2	267.6	104.5	0.2
2	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	232.1	274.3	104.4	222.9	265.7	103.8	224.2	267.3	104.4	0.0
2	1890LINE	FLAX HIL	RYTN J B	1	256	232.1	274.4	104.5	222.9	265.4	103.7	224.2	267.0	104.3	0.2
2	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	232.1	274.4	104.5	222.9	265.4	103.7	224.2	267.0	104.3	0.2
2	1416LINE	FLAX HIL	RYTN J B	1	256	232.1	274.6	104.5	222.9	265.2	103.6	224.2	266.6	104.1	0.4
3	PEQUON12TSTK	FLAX HIL	RYTN J B	1	256				211.5	263.4	102.9	212.5	264.6	103.4	
3	1430LINE	FLAX HIL	RYTN J B	1	256	220.7	270.8	102.4				212.5	264.0	103.1	
3	NORWLKHAR3T	FLAX HIL	RYTN J B	1	256	220.7	274.7	104.0	211.5	259.7	101.4	212.5	259.6	101.4	2.6
3	1130+1416LNS	FLAX HIL	RYTN J B	1	256	220.7	266.3	100.9	211.5	257.9	100.7	212.5	258.9	101.1	-0.2
3	SASCOCR1T	FLAX HIL	RYTN J B	1	256	220.7	266.5	100.8	211.5	257.7	100.7	212.5	258.9	101.1	-0.3
3	GLENBROOK8T	FLAX HIL	RYTN J B	1	256	220.7	265.7	100.5	211.5	257.2	100.5	212.5	258.4	100.9	-0.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1890LINE	FLAX HIL	RYTN J B	1	256	220.7	265.8	100.6	211.5	257.0	100.4	212.5	258.2	100.9	-0.3
3	NORWLKHAR1T	FLAX HIL	RYTN J B	1	256	220.7	265.8	100.6	211.5	257.0	100.4	212.5	258.2	100.9	-0.3
3	1416LINE	FLAX HIL	RYTN J B	1	256	220.7	264.7	100.3	222.9	271.5	106.0	212.5	256.8	100.3	0.0
2	DARIEN1T	FLAX HIL	RYTN J B	1	256	232.1	263.9	100.4				224.2	256.8	100.3	0.1
2	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				133.3	253.1	111.0	129.2	253.0	111.0	
5	1460-387DCT	GLEN JCT	SOUTHGTN	1	228				135.6	251.6	110.3	131.5	251.1	110.1	
2	387LINE	GLEN JCT	SOUTHGTN	1	228				133.3	245.7	107.8	129.2	245.8	107.8	
5	387LINE	GLEN JCT	SOUTHGTN	1	228				135.6	245.3	107.6	131.5	245.0	107.5	
2	SCOVK8TSTK	GLEN JCT	SOUTHGTN	1	228				133.3	244.0	107.0	129.2	243.9	107.0	
5	SCOVK8TSTK	GLEN JCT	SOUTHGTN	1	228				135.6	243.4	106.8	131.5	243.0	106.6	
2	SCOVK5TSTK	GLEN JCT	SOUTHGTN	1	228				133.3	229.0	100.4	129.2	228.9	100.4	
5	1867-1880DCT	GLNBROOK	ELYAVE	1	279	178.4	447.1	155.1	172.1	431.7	154.7	172.1	431.7	154.7	0.4
4	1867-1880DCT	GLNBROOK	ELYAVE	1	279	177.0	438.7	152.2	171.0	423.8	151.9	170.8	423.1	151.7	0.5
4	1416-1880DCT	GLNBROOK	ELYAVE	1	279	177.0	295.0	102.3	171.0	286.9	102.8	170.8	286.8	102.8	-0.5
5	1416-1880DCT	GLNBROOK	ELYAVE	1	279	178.4	290.0	100.5	172.1	281.6	100.9	172.1	281.7	101.0	-0.5
4	1416-1867DCT	GLNBROOK	ELYAVE	1	279				171.0	279.7	100.2	170.8	279.5	100.2	
5	1867-1890DCT	GLNBROOK	RYTN J A	1	439	186.5	471.2	103.8	179.3	454.1	103.4	179.3	454.0	103.4	0.4
5	1880-1890DCT	GLNBROOK	RYTN J B	1	289	171.6	447.8	150.0	165.1	430.8	149.1	165.1	430.7	149.0	1.0
4	1880-1890DCT	GLNBROOK	RYTN J B	1	289	162.0	424.6	142.2	154.6	405.7	140.4	154.5	405.7	140.4	1.8
2	1880-1890DCT	GLNBROOK	RYTN J B	1	289	156.8	364.6	123.3	150.9	352.4	121.9	150.8	352.2	121.9	1.4
3	1880-1890DCT	GLNBROOK	RYTN J B	1	289	150.9	354.5	119.2	145.2	341.7	118.2	145.2	341.6	118.2	1.0
2	1416-1880DCT	GLNBROOK	RYTN J B	1	289	156.8	345.8	116.8	150.9	336.8	116.5	150.8	337.1	116.7	0.1
3	1416-1880DCT	GLNBROOK	RYTN J B	1	289	150.9	340.9	114.7	145.2	332.0	114.9	145.2	332.2	115.0	-0.3
2	1880-1977DCT	GLNBROOK	RYTN J B	1	289	156.8	317.4	107.1	150.9	308.8	106.8	150.8	309.1	107.0	0.1
3	1880-1977DCT	GLNBROOK	RYTN J B	1	289	150.9	312.5	105.0	145.2	303.9	105.2	145.2	304.2	105.3	-0.3
5	1620SLINE	HADDAM	BOKUM	1	165	100.8	176.4	107.5	110.7	196.3	119.0	109.0	193.3	117.2	-9.7
2	1620SLINE	HADDAM	BOKUM	1	165	99.2	173.6	105.7	110.7	196.4	119.0	109.0	193.2	117.1	-11.4
2	1261LINE	HADDAM	BOKUM	2	191				113.6	197.5	103.4	111.8	194.5	101.8	
5	1261LINE	HADDAM	BOKUM	2	191				113.5	197.5	103.4	111.7	194.4	101.8	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	303.5	226.5	22.5	303.3	226.4	
5	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	302.7	225.9	22.4	302.6	225.8	
3	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.5	298.8	223.0	22.5	298.8	223.0	
4	TRIANGLE2T	MIDDLRIV	TRIANGLE	1	134		NC		22.4	297.6	222.1	22.4	297.6	222.1	
2	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.7	147.0	111.7	22.5	149.6	111.6	22.5	149.5	111.6	0.1
3	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.7	110.3	22.5	149.4	111.5	22.5	149.3	111.5	-1.2
5	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.9	110.9	22.4	149.1	111.3	22.4	149.0	111.2	-0.3
4	1060-1165DCT	MIDDLRIV	TRIANGLE	1	134	22.8	146.8	110.6	22.4	148.7	111.0	22.4	148.7	111.0	-0.4
5	LONGMT5TSTK	NORHR138	NWLK HAR	1	402	209.4	439.4	109.3	206.7	499.1	124.1	207.0	492.5	122.5	-13.2
5	398LINE	NORHR138	NWLK HAR	1	402	209.4	421.9	104.9	206.7	454.9	113.2	207.0	451.0	112.2	-7.3
5	398LREAC	NORHR138	NWLK HAR	1	402	209.4	421.8	104.9	206.7	454.9	113.2	207.0	451.0	112.2	-7.3
2	1416-1880DCT	NORWALK	FLAX HIL	1	256	276.9	526.2	201.1	266.5	511.9	200.0	267.9	514.5	201.0	0.1
3	1416-1880DCT	NORWALK	FLAX HIL	1	256	268.1	516.5	195.3	255.9	497.3	194.3	256.9	499.1	195.0	0.3
2	1880-1977DCT	NORWALK	FLAX HIL	1	256	276.9	499.0	190.6	266.5	484.6	189.3	267.9	487.2	190.3	0.3
3	1880-1977DCT	NORWALK	FLAX HIL	1	256	268.1	489.1	184.8	255.9	470.2	183.7	256.9	472.0	184.4	0.4
2	113091001DCT	NORWALK	FLAX HIL	1	256	276.9	433.9	166.1	266.5	426.0	166.4	267.9	427.9	167.1	-1.0
3	113091001DCT	NORWALK	FLAX HIL	1	256	268.1	429.5	163.0	255.9	420.1	164.1	256.9	421.4	164.6	-1.6
2	GLENBROOK3T	NORWALK	FLAX HIL	1	256	276.9	434.1	165.5	266.5	418.6	163.5	267.9	420.8	164.4	1.1
2	1880LINE	NORWALK	FLAX HIL	1	256	276.9	433.8	165.4	266.5	415.4	162.2	267.9	417.7	163.2	2.2
2	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	276.9	433.8	165.4	266.5	415.4	162.2	267.9	417.7	163.2	2.2
2	NORWALKST2	NORWALK	FLAX HIL	1	256	276.9	434.1	165.2	266.5	415.0	162.1	267.9	417.3	163.0	2.2
3	GLENBROOK3T	NORWALK	FLAX HIL	1	256	268.1	422.0	159.1	255.9	401.8	156.9	256.9	403.4	157.6	1.5
3	1880LINE	NORWALK	FLAX HIL	1	256	268.1	421.8	159.1	255.9	400.1	156.3	256.9	401.7	156.9	2.2
3	NORWLKHAR4T	NORWALK	FLAX HIL	1	256	268.1	421.8	159.1	255.9	400.1	156.3	256.9	401.7	156.9	2.2
3	NORWALKST2	NORWALK	FLAX HIL	1	256	268.1	420.8	158.3	255.9	398.2	155.5	256.9	399.8	156.2	2.1
2	1880-1890DCT	NORWALK	FLAX HIL	1	256	276.9	412.2	157.3	266.5	398.7	155.7	267.9	398.5	155.7	1.6
2	1130-1430DCT	NORWALK	FLAX HIL	1	256	276.9	401.4	153.3	266.5	392.8	153.4	267.9	394.7	154.2	-0.9
2	1416-1890DCT	NORWALK	FLAX HIL	1	256	276.9	398.3	152.2	266.5	390.0	152.3	267.9	391.9	153.1	-0.9
3	1130-1430DCT	NORWALK	FLAX HIL	1	256	268.1	397.0	150.3	255.9	387.2	151.3	256.9	388.6	151.8	-1.5
3	1880-1890DCT	NORWALK	FLAX HIL	1	256	268.1	405.0	152.8	255.9	388.1	151.6	256.9	388.1	151.6	1.2
3	1416-1890DCT	NORWALK	FLAX HIL	1	256	268.1	394.3	149.4	255.9	384.6	150.2	256.9	386.0	150.8	-1.4
2	1890-1977DCT	NORWALK	FLAX HIL	1	256	276.9	374.6	143.0	266.5	366.3	143.1	267.9	368.2	143.8	-0.8
3	1890-1977DCT	NORWALK	FLAX HIL	1	256	268.1	370.7	140.3	255.9	361.1	141.1	256.9	362.5	141.6	-1.3
2	91001LINE	NORWALK	FLAX HIL	1	256	276.9	350.6	133.7	255.9	257.5	100.6	267.9	342.5	133.8	-0.1

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	91001LINE	NORWALK	FLAX HIL	1	256	268.1	344.0	130.1	266.5	340.9	133.2	256.9	333.7	130.4	-0.3
2	1130LINE	NORWALK	FLAX HIL	1	256	276.9	330.4	125.9	266.5	320.6	125.2	267.9	322.1	125.8	0.1
2	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	276.9	330.0	125.6	266.5	320.2	125.1	267.9	321.8	125.7	-0.1
2	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	276.9	336.8	128.2	266.5	321.6	125.6	267.9	321.4	125.5	2.7
2	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				266.5	318.1	124.2	267.9	319.7	124.9	
2	1430LINE	NORWALK	FLAX HIL	1	256	276.9	324.5	123.6	266.5	314.7	122.9	267.9	316.3	123.6	0.0
3	ASHCREEKBKR	NORWALK	FLAX HIL	1	256	268.1	323.3	122.0	255.9	312.0	121.9	256.9	313.1	122.3	-0.3
2	1130+1416LNS	NORWALK	FLAX HIL	1	256	276.9	321.0	122.3	266.5	311.2	121.6	267.9	312.7	122.2	0.1
3	1130LINE	NORWALK	FLAX HIL	1	256	268.1	323.1	122.1	255.9	311.6	121.7	256.9	312.7	122.1	0.0
2	SASCOCR1T	NORWALK	FLAX HIL	1	256	276.9	319.8	121.8	266.5	309.6	120.9	267.9	311.2	121.6	0.2
2	GLENBROOK8T	NORWALK	FLAX HIL	1	256	276.9	319.0	121.5	266.5	309.5	120.9	267.9	311.1	121.5	0.0
2	1890LINE	NORWALK	FLAX HIL	1	256	276.9	319.1	121.6	266.5	308.9	120.7	267.9	310.5	121.3	0.3
2	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	276.9	319.1	121.6	266.5	308.9	120.7	267.9	310.5	121.3	0.3
2	1416LINE	NORWALK	FLAX HIL	1	256	276.9	319.3	121.7	266.5	308.7	120.6	267.9	310.2	121.2	0.5
3	PEQUON12TSTK	NORWALK	FLAX HIL	1	256				255.9	308.0	120.3	256.9	309.2	120.8	
3	1430LINE	NORWALK	FLAX HIL	1	256	268.1	317.8	119.9	255.9	306.7	119.8	256.9	307.9	120.3	-0.4
3	NORWLKHAR3T	NORWALK	FLAX HIL	1	256	268.1	323.7	121.9	255.9	304.9	119.1	256.9	304.8	119.1	2.8
3	1130+1416LNS	NORWALK	FLAX HIL	1	256	268.1	313.7	118.5	255.9	302.3	118.1	256.9	303.4	118.5	0.0
3	SASCOCR1T	NORWALK	FLAX HIL	1	256	268.1	313.6	118.3	255.9	301.8	117.9	256.9	302.9	118.3	0.0
3	GLENBROOK8T	NORWALK	FLAX HIL	1	256	268.1	312.8	118.0	255.9	301.5	117.8	256.9	302.6	118.2	-0.2
3	1890LINE	NORWALK	FLAX HIL	1	256	268.1	312.9	118.1	255.9	301.1	117.6	256.9	302.2	118.1	0.0
3	NORWLKHAR1T	NORWALK	FLAX HIL	1	256	268.1	312.9	118.1	255.9	301.1	117.6	256.9	302.2	118.1	0.0
3	1416LINE	NORWALK	FLAX HIL	1	256	268.1	312.0	117.9	255.9	300.0	117.2	256.9	301.1	117.6	0.3
2	DARIEN1T	NORWALK	FLAX HIL	1	256	276.9	308.8	117.6	266.5	299.2	116.9	267.9	300.7	117.5	0.1
2	SOUTHEND6T	NORWALK	FLAX HIL	1	256	276.9	305.7	116.4	266.5	296.0	115.6	267.9	297.6	116.2	0.2
2	1977LINENEW	NORWALK	FLAX HIL	1	256	276.9	305.0	116.1	266.5	295.4	115.4	267.9	296.9	116.0	0.1
2	387+AUTOS	NORWALK	FLAX HIL	1	256	276.9	302.8	115.6							
3	DARIEN1T	NORWALK	FLAX HIL	1	256	268.1	301.5	113.8	255.9	290.4	113.4	256.9	291.4	113.8	0.0
3	SOUTHEND6T	NORWALK	FLAX HIL	1	256	268.1	298.4	112.7	255.9	287.2	112.2	256.9	288.3	112.6	0.1
2	SOUTHEND5T	NORWALK	FLAX HIL	1	256	276.9	296.6	112.9	266.5	286.4	111.9	267.9	287.9	112.5	0.4
3	1977LINENEW	NORWALK	FLAX HIL	1	256	268.1	297.8	112.4	255.9	286.5	111.9	256.9	287.6	112.3	0.1
2	8100-8200DCT	NORWALK	FLAX HIL	1	256	276.9	283.9	108.2	266.5	281.0	109.8	267.9	282.5	110.4	-2.2
2	SINGAUT	NORWALK	FLAX HIL	1	256	276.9	296.4	112.7	266.5	280.9	109.7	267.9	282.4	110.3	2.4
3	387+AUTOS	NORWALK	FLAX HIL	1	256	268.1	291.7	110.2							
3	SOUTHEND5T	NORWALK	FLAX HIL	1	256	268.1	289.3	109.2	255.9	277.7	108.5	256.9	278.8	108.9	0.3
3	387LINE	NORWALK	FLAX HIL	1	256				255.9	277.9	108.6	256.9	277.9	108.6	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	387LINE	NORWALK	FLAX HIL	1	256				266.5	277.7	108.5	267.9	277.8	108.5	
2	DEVON24TSTK	NORWALK	FLAX HIL	1	256	276.9	288.1	109.6	266.5	276.3	107.9	267.9	277.8	108.5	1.1
3	1460-387DCT	NORWALK	FLAX HIL	1	256	268.1	292.2	110.4	255.9	277.1	108.2	256.9	277.1	108.2	2.2
2	1310-1763DCT	NORWALK	FLAX HIL	1	256	276.9	285.9	108.8	266.5	275.5	107.6	267.9	276.9	108.2	0.6
2	1460-387DCT	NORWALK	FLAX HIL	1	256	276.9	303.4	115.8	266.5	276.7	108.1	267.9	276.7	108.1	7.7
3	SCOVK8TSTK	NORWALK	FLAX HIL	1	256	268.1	265.6	100.2	255.9	274.4	107.2	256.9	274.4	107.2	-7.0
2	1560-1570DCT	NORWALK	FLAX HIL	1	256	276.9	283.0	107.6	266.5	273.2	106.7	267.9	274.5	107.2	0.4
2	SCOVK8TSTK	NORWALK	FLAX HIL	1	256	276.9	272.8	103.8	266.5	274.4	107.2	267.9	274.1	107.1	-3.3
2	STEVENSNSTK	NORWALK	FLAX HIL	1	256	276.9	284.1	108.0	266.5	272.8	106.6	267.9	274.2	107.1	0.9
2	1770-1887DCT	NORWALK	FLAX HIL	1	256	276.9	283.7	107.9	266.5	272.5	106.4	267.9	273.9	107.0	0.9
2	STONYHILL1T	NORWALK	FLAX HIL	1	256	276.9	283.7	107.9	266.5	272.5	106.4	267.9	273.9	107.0	0.9
2	1163-1550D-2	NORWALK	FLAX HIL	1	256	276.9	283.1	107.7	266.5	272.3	106.4	267.9	273.7	106.9	0.8
2	1800-1810DCT	NORWALK	FLAX HIL	1	256	276.9	283.1	107.7	266.5	272.4	106.4	267.9	273.8	106.9	0.8
2	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	276.9	283.1	107.7	266.5	272.4	106.4	267.9	273.8	106.9	0.8
2	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	276.9	283.1	107.7	266.5	272.3	106.4	267.9	273.7	106.9	0.8
2	TRIANGLE4T	NORWALK	FLAX HIL	1	256	276.9	283.1	107.6	266.5	272.4	106.4	267.9	273.7	106.9	0.7
2	MIXAVE1	NORWALK	FLAX HIL	1	256	276.9	282.2	107.4	266.5	272.2	106.3	267.9	273.6	106.9	0.5
2	1505-1607DCT	NORWALK	FLAX HIL	1	256	276.9	282.3	107.4	266.5	271.8	106.2	267.9	273.2	106.7	0.7
2	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	276.9	280.2	106.6	266.5	271.7	106.1	267.9	273.0	106.6	0.0
2	TRPFALLST1	NORWALK	FLAX HIL	1	256	276.9	281.5	107.1	266.5	271.5	106.0	267.9	272.8	106.6	0.5
2	BATESROCK1T	NORWALK	FLAX HIL	1	256	276.9	281.5	107.1	266.5	270.5	105.7	267.9	271.9	106.2	0.9
2	COLONY1T	NORWALK	FLAX HIL	1	256	276.9	280.9	106.9	266.5	270.5	105.7	267.9	271.9	106.2	0.7
2	QUINIPACST1	NORWALK	FLAX HIL	1	256	276.9	280.4	106.7	266.5	270.5	105.7	267.9	271.9	106.2	0.5
2	DEVAUT	NORWALK	FLAX HIL	1	256	276.9	283.4	107.7	266.5	270.4	105.6	267.9	271.9	106.2	1.5
2	1570-1575DCT	NORWALK	FLAX HIL	1	256	276.9	280.9	106.8	266.5	270.4	105.6	267.9	271.8	106.2	0.6
2	EDEVDEV1	NORWALK	FLAX HIL	1	256	276.9	282.3	107.4	266.5	270.3	105.6	267.9	271.6	106.1	1.3
2	1800-1825DCT	NORWALK	FLAX HIL	1	256	276.9	281.0	106.9	266.5	270.3	105.6	267.9	271.6	106.1	0.8
2	ESHR-XFR	NORWALK	FLAX HIL	1	256				266.5	270.3	105.6	267.9	271.7	106.1	
2	1466-362EDCT	NORWALK	FLAX HIL	1	256	276.9	278.7	106.1							
2	362ELINE	NORWALK	FLAX HIL	1	256	276.9	278.5	106.1							
2	1280-1870DCT	NORWALK	FLAX HIL	1	256	276.9	280.4	106.7	266.5	270.0	105.5	267.9	271.4	106.0	0.7
2	SACKETST1	NORWALK	FLAX HIL	1	256	276.9	279.3	106.3	266.5	270.0	105.5	267.9	271.3	106.0	0.3
2	GREENHLL2T	NORWALK	FLAX HIL	1	256	276.9	281.1	107.0	266.5	269.9	105.4	267.9	271.3	106.0	1.0
2	1272-1721DCT	NORWALK	FLAX HIL	1	256	276.9	280.0	106.6	266.5	269.8	105.4	267.9	271.1	105.9	0.7
2	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		266.5	269.7	105.4	267.9	271.0	105.9	
2	1355-1610DCT	NORWALK	FLAX HIL	1	256	276.9	280.7	106.8	266.5	269.6	105.3	267.9	271.0	105.9	0.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	276.9	280.7	106.8	266.5	269.6	105.3	267.9	271.0	105.9	0.9
2	1500LINE	NORWALK	FLAX HIL	1	256	276.9	280.1	106.6	266.5	269.7	105.3	267.9	271.1	105.9	0.7
2	1605LINE	NORWALK	FLAX HIL	1	256	276.9	280.1	106.6	266.5	269.7	105.3	267.9	271.1	105.9	0.7
2	BUNKERH2T	NORWALK	FLAX HIL	1	256	276.9	279.9	106.6	266.5	269.6	105.3	267.9	271.0	105.9	0.7
2	1100-1200DCT	NORWALK	FLAX HIL	1	256	276.9	280.0	106.5	266.5	269.6	105.3	267.9	271.0	105.8	0.7
2	1505LINE	NORWALK	FLAX HIL	1	256	276.9	279.9	106.5	266.5	269.5	105.3	267.9	270.9	105.8	0.7
2	BECONFLSTK	NORWALK	FLAX HIL	1	256	276.9	280.0	106.5	266.5	269.4	105.3	267.9	270.8	105.8	0.7
2	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	276.9	279.0	106.1	266.5	269.5	105.3	267.9	270.9	105.8	0.3
2	1760+1876LNS	NORWALK	FLAX HIL	1	256	276.9	280.6	106.7	266.5	269.3	105.2	267.9	270.8	105.8	0.9
2	PLUMTREE28T	NORWALK	FLAX HIL	1	256	276.9	280.5	106.7	266.5	269.3	105.2	267.9	270.7	105.7	1.0
2	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	276.9	280.3	106.7	266.5	269.3	105.2	267.9	270.7	105.7	1.0
2	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	276.9	278.3	105.9	266.5	269.2	105.2	267.9	270.6	105.7	0.2
2	1394-1515DCT	NORWALK	FLAX HIL	1	256	276.9	279.7	106.4	266.5	269.2	105.1	267.9	270.5	105.7	0.7
2	PLUMTREE25T	NORWALK	FLAX HIL	1	256	276.9	279.7	106.5	266.5	268.9	105.1	267.9	270.3	105.6	0.9
2	1690LINE	NORWALK	FLAX HIL	1	256	276.9	279.6	106.4	266.5	269.0	105.1	267.9	270.4	105.6	0.8
2	1355LINE	NORWALK	FLAX HIL	1	256	276.9	279.4	106.3	266.5	269.0	105.1	267.9	270.4	105.6	0.7
2	1670-1830DCT	NORWALK	FLAX HIL	1	256	276.9	279.4	106.3	266.5	269.0	105.1	267.9	270.3	105.6	0.7
2	347LINE	NORWALK	FLAX HIL	1	256	276.9	279.4	106.3	266.5	269.0	105.1	267.9	270.4	105.6	0.7
2	347LREAC	NORWALK	FLAX HIL	1	256	276.9	279.4	106.3	266.5	269.0	105.1	267.9	270.4	105.6	0.7
2	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	276.9	279.4	106.3	266.5	269.0	105.1	267.9	270.3	105.6	0.7
2	BROADWYST1	NORWALK	FLAX HIL	1	256	276.9	278.9	106.1	266.5	268.9	105.1	267.9	270.3	105.6	0.5
2	JUNEST1	NORWALK	FLAX HIL	1	256	276.9	279.9	106.5	266.5	268.9	105.0	267.9	270.2	105.6	0.9
2	1770LINE	NORWALK	FLAX HIL	1	256	276.9	279.8	106.4	266.5	268.9	105.0	267.9	270.3	105.6	0.8
2	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	276.9	279.9	106.4	266.5	268.8	105.0	267.9	270.2	105.6	0.8
2	GRNDAV5TSTK	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.8	105.0	267.9	270.2	105.6	0.0
2	GRNDAV6TSTK	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.8	105.0	267.9	270.2	105.6	0.0
2	1575-1585DCT	NORWALK	FLAX HIL	1	256	276.9	279.3	106.3	266.5	268.8	105.0	267.9	270.2	105.5	0.8
2	BUNKERH3T	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.7	105.0	267.9	270.1	105.5	0.7
2	EMERIDEN1T	NORWALK	FLAX HIL	1	256	276.9	279.3	106.2	266.5	268.8	105.0	267.9	270.2	105.5	0.7
2	HAWTHORNST	NORWALK	FLAX HIL	1	256	276.9	279.6	106.2	266.5	268.8	105.0	267.9	270.2	105.5	0.7
2	88005ALINE	NORWALK	FLAX HIL	1	256	276.9	278.7	106.0	266.5	268.7	105.0	267.9	270.1	105.5	0.5
2	DEVSWST4TSTK	NORWALK	FLAX HIL	1	256	276.9	278.7	106.0	266.5	268.7	105.0	267.9	270.1	105.5	0.5
2	318LINE	NORWALK	FLAX HIL	1	256	276.9	282.5	107.6	266.5	268.6	104.9	267.9	270.2	105.5	2.1
2	1780LINE	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.5	104.9	267.9	269.9	105.4	0.8
2	1790LINE	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.5	104.9	267.9	269.9	105.4	0.8
2	1820LINE	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.5	104.9	267.9	269.9	105.4	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1272+1445LNS	NORWALK	FLAX HIL	1	256	276.9	279.0	106.1	266.5	268.5	104.9	267.9	269.9	105.4	0.7
2	1443+1759LNS	NORWALK	FLAX HIL	1	256	276.9	278.8	106.1	266.5	268.4	104.9	267.9	269.8	105.4	0.7
2	1580-1585DCT	NORWALK	FLAX HIL	1	256	276.9	278.9	106.1	266.5	268.5	104.9	267.9	269.9	105.4	0.7
2	1810-1825DCT	NORWALK	FLAX HIL	1	256	276.9	279.0	106.1	266.5	268.5	104.9	267.9	269.8	105.4	0.7
2	SNAUGA1T	NORWALK	FLAX HIL	1	256	276.9	278.9	106.1	266.5	268.5	104.9	267.9	269.9	105.4	0.7
2	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	276.9	279.0	106.1	266.5	268.5	104.9	267.9	269.9	105.4	0.7
2	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	268.6	104.9	267.9	269.8	105.4	0.3
2	1732-1788DCT	NORWALK	FLAX HIL	1	256	276.9	278.9	106.1	266.5	268.4	104.8	267.9	269.8	105.4	0.7
2	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	276.9	278.9	106.1	266.5	268.4	104.8	267.9	269.8	105.4	0.7
2	88006ALINE	NORWALK	FLAX HIL	1	256	276.9	278.1	105.8	266.5	268.4	104.8	267.9	269.8	105.4	0.4
2	89006BLINE-1	NORWALK	FLAX HIL	1	256	276.9	278.1	105.8	266.5	268.4	104.8	267.9	269.8	105.4	0.4
2	SGTN3TSTK	NORWALK	FLAX HIL	1	256	276.9	282.2	107.5	266.5	267.8	104.6	267.9	269.9	105.4	2.1
2	1575LINE	NORWALK	FLAX HIL	1	256	276.9	278.8	106.1	266.5	268.3	104.8	267.9	269.6	105.3	0.8
2	BUNKERH1T	NORWALK	FLAX HIL	1	256	276.9	278.8	106.1	266.5	268.3	104.8	267.9	269.6	105.3	0.8
2	1668-1721DCT	NORWALK	FLAX HIL	1	256	276.9	278.7	106.0	266.5	268.2	104.8	267.9	269.6	105.3	0.7
2	1560LINE	NORWALK	FLAX HIL	1	256	276.9	278.1	105.8	266.5	268.2	104.8	267.9	269.5	105.3	0.5
2	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	268.2	104.8	267.9	269.6	105.3	0.5
2	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	268.2	104.8	267.9	269.6	105.3	0.5
2	BAIRDASTK	NORWALK	FLAX HIL	1	256	276.9	278.0	105.7	266.5	268.2	104.8	267.9	269.6	105.3	0.4
2	GRNDAV4TSTK	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.2	104.8	267.9	269.6	105.3	0.3
2	GRNDAV7TSTK	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.2	104.8	267.9	269.6	105.3	0.3
2	NMSTBKREAC	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	268.3	104.8	267.9	269.5	105.3	0.0
2	NOMNTSTBKR	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	268.3	104.8	267.9	269.5	105.3	0.0
2	1575-1990DCT	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.1	104.7	267.9	269.6	105.3	0.9
2	100+400LINES	NORWALK	FLAX HIL	1	256	276.9	278.5	106.0	266.5	268.1	104.7	267.9	269.5	105.3	0.7
2	1050+1766LNS	NORWALK	FLAX HIL	1	256	276.9	278.5	106.0	266.5	268.1	104.7	267.9	269.5	105.3	0.7
2	FROSTBR15T	NORWALK	FLAX HIL	1	256	276.9	278.7	106.0	266.5	268.1	104.7	267.9	269.5	105.3	0.7
2	HADDAM1T	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3							
3	SINGAUT	NORWALK	FLAX HIL	1	256	268.1	285.9	107.8	255.9	268.3	104.8	256.9	269.4	105.2	2.6
2	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	276.9	279.1	106.2	266.5	268.0	104.7	267.9	269.4	105.2	1.0
2	1163+1910LNS	NORWALK	FLAX HIL	1	256	276.9	278.5	106.0	266.5	268.1	104.7	267.9	269.4	105.2	0.8
2	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	276.9	278.5	106.0	266.5	268.1	104.7	267.9	269.4	105.2	0.8
2	1100-1300DCT	NORWALK	FLAX HIL	1	256	276.9	278.4	105.9	266.5	268.0	104.7	267.9	269.4	105.2	0.7
2	88003ALINE-2	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.0	104.7	267.9	269.4	105.2	0.4
2	89003BLINE-2	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	268.0	104.7	267.9	269.4	105.2	0.4
2	SGTN4TSTK	NORWALK	FLAX HIL	1	256	276.9	281.7	107.4	266.5	267.7	104.6	267.9	269.4	105.2	2.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	310-383DCT	NORWALK	FLAX HIL	1	256	276.9	279.2	106.2	266.5	267.9	104.6	267.9	269.3	105.2	1.0
2	1070+1490LNS	NORWALK	FLAX HIL	1	256	276.9	278.3	105.9	266.5	267.9	104.6	267.9	269.2	105.2	0.7
2	1235LINE	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	267.9	104.6	267.9	269.2	105.2	0.6
2	362LINE	NORWALK	FLAX HIL	1	256				266.5	267.8	104.6	267.9	269.2	105.2	
2	1550+1950LNS	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	267.7	104.6	267.9	269.1	105.1	0.7
2	NWALLING1T	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	267.8	104.6	267.9	269.1	105.1	0.7
2	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	276.9	278.0	105.7	266.5	267.8	104.6	267.9	269.2	105.1	0.6
2	8809ALINE-2	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	267.7	104.6	267.9	269.1	105.1	0.5
2	1000-1090DCT	NORWALK	FLAX HIL	1	256	276.9	278.0	105.8	266.5	267.6	104.5	267.9	269.0	105.1	0.7
2	1000LINE	NORWALK	FLAX HIL	1	256	276.9	277.9	105.7	266.5	267.6	104.5	267.9	268.9	105.1	0.6
2	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.6	104.5	267.9	269.0	105.1	0.4
2	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.6	104.5	267.9	269.0	105.1	0.4
2	8909BLINE-2	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	255.9	256.2	100.1	267.9	269.1	105.1	0.5
3	DEVON24TSTK	NORWALK	FLAX HIL	1	256	268.1	282.3	106.5	255.9	267.9	104.7	256.9	268.9	105.0	1.5
2	312+393LNS	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	267.7	104.6	267.9	268.8	105.0	0.0
2	312+393REAC	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	267.7	104.6	267.9	268.8	105.0	0.0
2	312LINE	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	267.7	104.6	267.9	268.8	105.0	0.0
2	694LINE	NORWALK	FLAX HIL	1	256	276.9	277.9	105.7	266.5	267.4	104.5	267.9	268.8	105.0	0.7
2	8100LINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.4	104.5	267.9	268.8	105.0	0.5
2	8200LINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.4	104.5	267.9	268.8	105.0	0.5
2	88003ALINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.5	104.5	267.9	268.9	105.0	0.5
2	89003BLINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.5	104.5	267.9	268.9	105.0	0.5
2	ESHORE12TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.4	104.5	267.9	268.8	105.0	0.5
2	GRNDAV1TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.5	104.5	267.9	268.9	105.0	0.5
2	GRNDAV3TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.4	266.5	267.5	104.5	267.9	268.9	105.0	0.4
2	8400LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	267.4	104.5	267.9	268.8	105.0	0.3
2	89006BLINE	NORWALK	FLAX HIL	1	256	276.9	277.5	105.5	266.5	267.3	104.4	267.9	268.7	105.0	0.5
2	88003ALINE-3	NORWALK	FLAX HIL	1	256	276.9	277.1	105.4	266.5	267.3	104.4	267.9	268.7	105.0	0.4
2	89003BLINE-3	NORWALK	FLAX HIL	1	256	276.9	277.1	105.4	266.5	267.3	104.4	267.9	268.7	105.0	0.4
2	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	276.9	277.7	105.7	266.5	267.2	104.4	267.9	268.5	104.9	0.8
2	1250LINE	NORWALK	FLAX HIL	1	256	276.9	277.7	105.6	266.5	267.3	104.4	267.9	268.7	104.9	0.7
2	1280LINE	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	267.3	104.4	267.9	268.6	104.9	0.7
2	400LINE	NORWALK	FLAX HIL	1	256	276.9	277.7	105.6	266.5	267.3	104.4	267.9	268.7	104.9	0.7
2	BAIRDBSTK	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	267.1	104.4	267.9	268.5	104.9	0.6
2	352LINE	NORWALK	FLAX HIL	1	256	276.9	276.2	105.3	266.5	267.2	104.4	267.9	268.5	104.9	0.4
3	8100-8200DCT	NORWALK	FLAX HIL	1	256	268.1	273.0	103.0	255.9	267.3	104.4	256.9	268.4	104.9	-1.9

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1610LINE	NORWALK	FLAX HIL	1	256	276.9	278.1	105.8	266.5	267.1	104.3	267.9	268.5	104.9	0.9
2	1760LINE	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	267.0	104.3	267.9	268.4	104.9	0.9
2	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	267.1	104.3	267.9	268.5	104.9	0.6
2	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	276.9	279.9	106.5	266.5	267.0	104.3	267.9	268.4	104.8	1.7
2	310LINE	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	266.9	104.3	267.9	268.3	104.8	0.9
2	1070-1080DCT	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	267.0	104.3	267.9	268.4	104.8	0.7
2	1572+1772LNS	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	267.0	104.3	267.9	268.3	104.8	0.7
2	1607LINE	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	267.0	104.3	267.9	268.4	104.8	0.7
2	1730BLINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.0	104.3	267.9	268.3	104.8	0.7
2	1870LINE	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	266.9	104.3	267.9	268.3	104.8	0.7
2	667-690LINE	NORWALK	FLAX HIL	1	256	276.9	277.4	105.5	266.5	267.0	104.3	267.9	268.4	104.8	0.7
2	DEVON10TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.0	104.3	267.9	268.3	104.8	0.7
2	DEVON8TSTK	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	267.0	104.3	267.9	268.3	104.8	0.7
2	1580-1730BDC	NORWALK	FLAX HIL	1	256	276.9	277.2	105.4	266.5	267.0	104.3	267.9	268.4	104.8	0.6
2	1585LINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.4	266.5	266.9	104.3	267.9	268.3	104.8	0.6
2	DEVON27TSTK	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.9	104.3	267.9	268.3	104.8	0.5
2	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.9	104.3	267.9	268.3	104.8	0.5
2	1720LINE	NORWALK	FLAX HIL	1	256	276.9	278.2	105.7	266.5	266.9	104.2	267.9	268.2	104.8	0.9
2	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	276.9	277.9	105.7	266.5	266.8	104.2	267.9	268.2	104.8	0.9
2	1470-1565DCT	NORWALK	FLAX HIL	1	256	276.9	278.2	105.6	266.5	266.7	104.2	267.9	268.2	104.8	0.8
2	PEACEABLE1T	NORWALK	FLAX HIL	1	256	276.9	278.2	105.6	266.5	266.7	104.2	267.9	268.2	104.8	0.8
2	1445LINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	266.9	104.2	267.9	268.2	104.8	0.7
2	1272LINE	NORWALK	FLAX HIL	1	256	276.9	277.1	105.4	266.5	266.8	104.2	267.9	268.2	104.8	0.6
2	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.8	104.2	267.9	268.2	104.8	0.6
2	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	266.8	104.2	267.9	268.2	104.7	1.0
2	1887LINE	NORWALK	FLAX HIL	1	256	276.9	277.6	105.6	266.5	266.7	104.2	267.9	268.1	104.7	0.9
2	1440LINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.7	104.2	267.9	268.0	104.7	0.7
2	1670-1771DCT	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.7	104.2	267.9	268.0	104.7	0.7
2	383LINE	NORWALK	FLAX HIL	1	256	276.9	277.1	105.4	266.5	266.7	104.2	267.9	268.1	104.7	0.7
2	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.7	104.2	267.9	268.0	104.7	0.7
2	1640LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.8	104.2	267.9	268.1	104.7	0.6
2	8300LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.7	104.2	267.9	268.1	104.7	0.6
2	84004LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.7	104.2	267.9	268.1	104.7	0.6
2	88003ALINE-1	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.7	104.2	267.9	268.0	104.7	0.6
2	8804ALINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.7	104.2	267.9	268.1	104.7	0.6
2	89003BLINE-1	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.7	104.2	267.9	268.0	104.7	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	WALLING3TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.8	104.2	267.9	268.1	104.7	0.6
2	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC		266.5	266.7	104.2	267.9	268.0	104.7	
2	SGTN6TSTK	NORWALK	FLAX HIL	1	256	276.9	277.7	105.7	266.5	266.6	104.1	267.9	267.9	104.7	1.0
2	1990LINE	NORWALK	FLAX HIL	1	256	276.9	277.4	105.6	266.5	266.5	104.1	267.9	267.9	104.7	0.9
2	FROSTBR27T	NORWALK	FLAX HIL	1	256	276.9	277.4	105.6	266.5	266.5	104.1	267.9	268.0	104.7	0.9
2	1191LINE	NORWALK	FLAX HIL	1	256	276.9	277.1	105.4	266.5	266.6	104.1	267.9	268.0	104.7	0.7
2	1443LINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.6	104.1	267.9	267.9	104.7	0.7
2	1721LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.4	266.5	266.6	104.1	267.9	268.0	104.7	0.7
2	1759LINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.6	104.1	267.9	267.9	104.7	0.7
2	1070LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1090LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1270LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1337LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1460LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1537LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1580LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	1594LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1668LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	1675LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1685LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	1704LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1740LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1753LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1765LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1771LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	1785LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.7	0.6
2	1792LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	8500LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	8700LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	9502LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	DEVON11TSTK	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	WATERST1TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	268.0	104.7	0.6
2	WATERST2TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.6	104.1	267.9	267.9	104.7	0.6
2	8904BLINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3				267.9	268.1	104.7	0.6
2	9500LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	255.9	332.5	129.9	267.9	267.9	104.6	0.7
2	NORSING1	NORWALK	FLAX HIL	1	256	276.9	274.4	104.8	266.5	266.6	104.2	267.9	267.8	104.6	0.2

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	100LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1060-1270DCT	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1060LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1100LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1163LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1165LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1200LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1206LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1207LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1310LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1394LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1410LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1440-1450DCT	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1450LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1466LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1490LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1572LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1588LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1620NLINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1625LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1655LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1670LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1751LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1756LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1763LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1766LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1767LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1769LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1772LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1775LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	1779LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1786LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1788LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1800-1860LNS	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1810LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	1825LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1830LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1835LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1900LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1921LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	1975LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	381LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	381LREAC	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.1	267.9	267.8	104.6	0.7
2	689LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	693LINE	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	DEVON12TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	LOBPTENGF	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	LOSSNHAV	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	LOSSNOR1	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	LOSSNOR2	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.5	104.1	267.9	267.9	104.6	0.7
2	MANCHAUTO1	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.5	104.1	267.9	267.8	104.6	0.7
2	BRANFORD2T	NORWALK	FLAX HIL	1	256	276.9	276.4	105.2	266.5	266.4	104.1	267.9	267.8	104.6	0.6
2	EDEVDEV2	NORWALK	FLAX HIL	1	256	276.9	276.2	105.2	266.5	266.5	104.1	267.9	267.9	104.6	0.6
2	8809ALINE-1	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	266.5	104.1	267.9	267.8	104.6	0.5
2	DEVON4TSTK	NORWALK	FLAX HIL	1	256				266.5	266.5	104.1	267.9	267.9	104.6	
2	1208LINE	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	266.3	104.0	267.9	267.7	104.6	1.2
2	WALLING4TSTK	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	266.3	104.0	267.9	267.7	104.6	1.2
2	WALLING5TSTK	NORWALK	FLAX HIL	1	256	276.9	278.2	105.8	266.5	266.3	104.0	267.9	267.7	104.6	1.2
2	329LINE	NORWALK	FLAX HIL	1	256	276.9	277.1	105.6	266.5	266.4	104.0	267.9	267.8	104.6	1.0
2	BRANFORD4T	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	266.4	104.0	267.9	267.8	104.6	0.9
2	1261LINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.3	104.0	267.9	267.7	104.6	0.8
2	1620SLINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.3	104.0	267.9	267.7	104.6	0.8
2	1050LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1550LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1620N-1975DC	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1752LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.4	104.0	267.9	267.7	104.6	0.7
2	1777-1779DCT	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1777LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1910LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	1950LINE	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	8600LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7
2	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	276.9	276.7	105.3	266.5	266.3	104.0	267.9	267.7	104.6	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	1060-1165DCT	NORWALK	FLAX HIL	1	256	276.9	276.6	105.2	266.5	266.3	104.0	267.9	267.7	104.6	0.6
2	1080-1280DCT	NORWALK	FLAX HIL	1	256	276.9	276.7	105.2	266.5	266.3	104.0	267.9	267.7	104.6	0.6
2	1784LINE	NORWALK	FLAX HIL	1	256	276.9	276.4	105.2	266.5	266.3	104.0	267.9	267.7	104.6	0.6
2	301-302LNS	NORWALK	FLAX HIL	1	256	276.9	276.6	105.2	266.5	266.3	104.0	267.9	267.7	104.6	0.6
2	HADDAMAT	NORWALK	FLAX HIL	1	256				266.5	266.3	104.0	267.9	267.7	104.6	
2	ORANG-ESHR	NORWALK	FLAX HIL	1	256				266.5	266.4	104.0	267.9	267.7	104.6	
2	8909BLINE-1	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1				267.9	267.8	104.6	0.5
2	WALLING2TSTK	NORWALK	FLAX HIL	1	256	276.9	277.5	105.6	266.5	266.2	104.0	267.9	267.6	104.5	1.1
2	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	276.9	276.6	105.3	266.5	266.2	104.0	267.9	267.6	104.5	0.8
2	1515LINE	NORWALK	FLAX HIL	1	256	276.9	276.6	105.2	266.5	266.3	104.0	267.9	267.6	104.5	0.7
2	1783LINE	NORWALK	FLAX HIL	1	256	276.9	276.6	105.2	266.5	266.2	104.0	267.9	267.6	104.5	0.7
2	1207-1775DCT	NORWALK	FLAX HIL	1	256	276.9	276.3	105.1	266.5	266.1	104.0	267.9	267.5	104.5	0.6
2	1773LINE	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	266.2	104.0	267.9	267.6	104.5	0.6
2	1570-1580DCT	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	266.1	104.0	267.9	267.5	104.5	0.5
2	1508LINE	NORWALK	FLAX HIL	1	256	276.9	277.2	105.5	266.5	266.1	103.9	267.9	267.5	104.5	1.0
2	SGTN5TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.5	266.5	266.0	103.9	267.9	267.6	104.5	1.0
2	1876LINE	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	266.0	103.9	267.9	267.4	104.5	0.9
2	FROSTBR21T	NORWALK	FLAX HIL	1	256	276.9	276.9	105.4	266.5	266.0	103.9	267.9	267.5	104.5	0.9
2	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	276.9	276.9	105.4	266.5	266.0	103.9	267.9	267.4	104.5	0.9
2	1570LINE	NORWALK	FLAX HIL	1	256	276.9	276.1	105.1	266.5	266.1	103.9	267.9	267.4	104.5	0.6
2	1751-1777DCT	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	266.0	103.9	267.9	267.4	104.5	0.6
2	1821LINE	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	266.0	103.9	267.9	267.4	104.5	0.6
2	1836LINE	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	266.0	103.9	267.9	267.4	104.5	0.6
2	DEVON7TSTK	NORWALK	FLAX HIL	1	256	276.9	276.1	105.1	266.5	266.1	103.9	267.9	267.4	104.5	0.6
2	SINGERSTK	NORWALK	FLAX HIL	1	256				266.5	266.2	104.0	267.9	267.3	104.4	
2	1208-1640DCT	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	265.9	103.9	267.9	267.3	104.4	1.3
2	BRANFORD1T	NORWALK	FLAX HIL	1	256	276.9	277.3	105.5	266.5	265.9	103.9	267.9	267.3	104.4	1.1
2	1732LINE	NORWALK	FLAX HIL	1	256	276.9	276.3	105.1	266.5	266.0	103.9	267.9	267.4	104.4	0.7
2	500LINE	NORWALK	FLAX HIL	1	256	276.9	276.3	105.1	266.5	265.9	103.9	267.9	267.3	104.4	0.7
2	88005ALINE-1	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	265.9	103.9	267.9	267.3	104.4	0.7
2	89005BLINE-1	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	265.9	103.9	267.9	267.3	104.4	0.7
2	DEVSING1	NORWALK	FLAX HIL	1	256	276.9	275.7	104.9	266.5	266.0	103.9	267.9	267.3	104.4	0.5
2	393LINE	NORWALK	FLAX HIL	1	256	276.9	274.6	104.5	266.5	266.1	103.9	267.9	267.2	104.4	0.1
2	1342LINE	NORWALK	FLAX HIL	1	256	276.9	277.9	105.7	266.5	265.7	103.8	267.9	267.2	104.4	1.3
2	BOKUM2T	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	265.7	103.8	267.9	267.2	104.4	1.3
2	BOKUM3T	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	265.7	103.8	267.9	267.2	104.4	1.3

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	1726LINE	NORWALK	FLAX HIL	1	256	276.9	276.2	105.1	266.5	265.8	103.8	267.9	267.2	104.4	0.7
2	89005BLINE	NORWALK	FLAX HIL	1	256	276.9	276.3	105.1	266.5	265.8	103.8	267.9	267.2	104.4	0.7
2	WESTON1T	NORWALK	FLAX HIL	1	256	276.9	276.3	105.0	266.5	265.8	103.8	267.9	267.2	104.4	0.6
2	PEQUON42TSTK	NORWALK	FLAX HIL	1	256	276.9	272.9	104.1	266.5	266.0	103.9	267.9	267.1	104.3	-0.2
2	1080-1490DCT	NORWALK	FLAX HIL	1	256	276.9	275.9	105.0	266.5	265.6	103.8	267.9	267.0	104.3	0.7
2	1080LINE	NORWALK	FLAX HIL	1	256	276.9	276.0	105.0	266.5	265.7	103.8	267.9	267.0	104.3	0.7
2	1545LINE	NORWALK	FLAX HIL	1	256	276.9	275.5	104.8	266.5	265.7	103.8	267.9	267.0	104.3	0.5
2	310-368DCT	NORWALK	FLAX HIL	1	256	276.9	277.8	105.7	266.5	265.6	103.7	267.9	266.9	104.3	1.4
2	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	276.9	277.0	105.4	266.5	265.5	103.7	267.9	267.0	104.3	1.1
2	1630LINE	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	265.5	103.7	267.9	267.0	104.3	1.0
2	WALLING1TSTK	NORWALK	FLAX HIL	1	256	276.9	276.9	105.3	266.5	265.5	103.7	267.9	267.0	104.3	1.0
2	1618LINE	NORWALK	FLAX HIL	1	256	276.9	276.2	105.1	266.5	265.5	103.7	267.9	266.9	104.2	0.9
2	368LINE	NORWALK	FLAX HIL	1	256	276.9	276.4	105.1	266.5	265.4	103.7	267.9	266.7	104.2	0.9
2	1261-1620SDC	NORWALK	FLAX HIL	1	256	276.9	278.2	105.9	266.5	265.3	103.6	267.9	266.8	104.2	1.7
2	88005ALINE-2	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	265.3	103.6	267.9	266.7	104.2	0.8
2	89005BLINE-2	NORWALK	FLAX HIL	1	256	276.9	276.1	105.0	266.5	265.3	103.6	267.9	266.7	104.2	0.8
2	BOKUM1T	NORWALK	FLAX HIL	1	256				266.5	265.3	103.6	267.9	266.8	104.2	
2	HADDAMBT	NORWALK	FLAX HIL	1	256				266.5	265.3	103.6	267.9	266.8	104.2	
2	348NLINE	NORWALK	FLAX HIL	1	256	276.9	273.9	104.2							
2	376LINE	NORWALK	FLAX HIL	1	256	276.9	278.4	105.9	266.5	265.4	103.7	267.9	266.5	104.1	1.8
2	1545+SPS	NORWALK	FLAX HIL	1	256	276.9	274.5	104.5	266.5	265.1	103.6	267.9	266.4	104.1	0.4
2	SGTN7TSTK	NORWALK	FLAX HIL	1	256	276.9	278.3	105.9	266.5	264.9	103.5	267.9	266.3	104.0	1.9
2	ONE1385	NORWALK	FLAX HIL	1	256	276.9	275.1	104.7	266.5	264.9	103.5	267.9	266.2	104.0	0.7
2	1300LINE	NORWALK	FLAX HIL	1	256	276.9	275.1	104.6	266.5	264.8	103.5	267.9	266.2	104.0	0.6
2	1238+1813LNS	NORWALK	FLAX HIL	1	256	276.9	275.6	104.9	266.5	264.8	103.4	267.9	266.2	104.0	0.9
2	1975-362WDCT	NORWALK	FLAX HIL	1	256	276.9	273.3	104.0							
2	362WLINE	NORWALK	FLAX HIL	1	256	276.9	273.3	104.0							
3	1310-1763DCT	NORWALK	FLAX HIL	1	256	268.1	277.2	104.6	255.9	264.9	103.5	256.9	265.9	103.9	0.7
2	1730CLINE	NORWALK	FLAX HIL	1	256	276.9	274.4	104.4	266.5	264.8	103.4	267.9	266.1	103.9	0.5
2	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	276.9	274.4	104.4	266.5	264.8	103.4	267.9	266.1	103.9	0.5
2	371-383DCT	NORWALK	FLAX HIL	1	256	276.9	276.8	105.3	266.5	264.3	103.3	267.9	265.6	103.8	1.5
2	DEVON23TSTK	NORWALK	FLAX HIL	1	256	276.9	275.2	104.7	266.5	264.5	103.3	267.9	265.8	103.8	0.9
2	1622-1887DCT	NORWALK	FLAX HIL	1	256	276.9	274.9	104.6	266.5	264.2	103.2	267.9	265.6	103.8	0.8
2	SHEPAUG13A	NORWALK	FLAX HIL	1	256	276.9	274.9	104.6	266.5	264.2	103.2	267.9	265.6	103.8	0.8
2	329-352DCT	NORWALK	FLAX HIL	1	256	276.9	273.9	104.5	266.5	264.3	103.2	267.9	265.7	103.8	0.7
2	352+AUTO	NORWALK	FLAX HIL	1	256	276.9	273.9	104.5	266.5	264.3	103.2	267.9	265.7	103.8	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	1722LINE	NORWALK	FLAX HIL	1	256	276.9	274.6	104.4	266.5	264.3	103.2	267.9	265.6	103.8	0.6
2	DEVON25TSTK	NORWALK	FLAX HIL	1	256	276.9	275.2	104.7				267.9	265.8	103.8	0.9
2	HADNKSTBKR	NORWALK	FLAX HIL	1	256	276.9	272.7	103.8							
2	1813LINE	NORWALK	FLAX HIL	1	256	276.9	274.8	104.6	266.5	264.1	103.2	267.9	265.5	103.7	0.9
2	1622LINE	NORWALK	FLAX HIL	1	256	276.9	274.3	104.4	266.5	264.1	103.2	267.9	265.5	103.7	0.7
2	310-348WDCT	NORWALK	FLAX HIL	1	256	276.9	270.6	102.9	266.5	264.0	103.1	267.9	265.5	103.7	-0.8
2	1637-1720DCT	NORWALK	FLAX HIL	1	256	276.9	276.2	104.8	266.5	263.8	103.0	267.9	265.2	103.6	1.2
2	348N+AUTO	NORWALK	FLAX HIL	1	256	276.9	274.9	104.6	266.5	263.7	103.0	267.9	265.2	103.6	1.0
2	1238LINE	NORWALK	FLAX HIL	1	256	276.9	274.3	104.4	266.5	263.6	103.0	267.9	265.0	103.5	0.9
2	1637LINE	NORWALK	FLAX HIL	1	256	276.9	274.9	104.4	266.5	263.6	103.0	267.9	265.0	103.5	0.9
2	SGTN1TSTK	NORWALK	FLAX HIL	1	256	276.9	274.8	104.6	266.5	263.5	102.9	267.9	265.0	103.5	1.1
2	1975-348DCT	NORWALK	FLAX HIL	1	256	276.9	269.9	102.7	266.5	263.3	102.9	267.9	264.8	103.5	-0.8
2	348LINE	NORWALK	FLAX HIL	1	256	276.9	270.1	102.7	266.5	263.4	102.9	267.9	264.9	103.5	-0.8
2	1759-353NDCT	NORWALK	FLAX HIL	1	256	276.9	275.2	104.7	266.5	263.6	103.0	267.9	264.8	103.4	1.3
2	371+AUTO	NORWALK	FLAX HIL	1	256	276.9	275.2	104.7	266.5	263.4	102.9	267.9	264.7	103.4	1.3
2	371LINE	NORWALK	FLAX HIL	1	256	276.9	275.3	104.7	266.5	263.5	102.9	267.9	264.8	103.4	1.3
2	362W-376DCT	NORWALK	FLAX HIL	1	256	276.9	272.7	103.8	266.5	263.4	102.9	267.9	264.6	103.4	0.4
2	1545-1570DCT	NORWALK	FLAX HIL	1	256	276.9	271.9	103.7	266.5	263.3	102.9	267.9	264.6	103.4	0.3
2	DEVON6TSTK	NORWALK	FLAX HIL	1	256	276.9	271.9	103.7	266.5	263.3	102.9	267.9	264.6	103.4	0.3
2	SCOVK7TSTK	NORWALK	FLAX HIL	1	256	276.9	271.4	103.4							
2	DEVON26TSTK	NORWALK	FLAX HIL	1	256	276.9	273.3	104.0	266.5	263.0	102.7	267.9	264.4	103.3	0.7
3	DEVON25TSTK	NORWALK	FLAX HIL	1	256	268.1	267.0	100.7	266.5	264.5	103.3				
2	LOSSDEV7	NORWALK	FLAX HIL	1	256	276.9	273.3	104.0	266.5	262.8	102.7	267.9	264.2	103.2	0.8
2	PLUMAUT	NORWALK	FLAX HIL	1	256	276.9	272.6	103.8	266.5	262.8	102.7	267.9	264.2	103.2	0.6
2	LOSSBPT3	NORWALK	FLAX HIL	1	256	276.9	270.9	103.2	266.5	263.0	102.7	267.9	264.1	103.2	0.0
2	CARD2TSTK	NORWALK	FLAX HIL	1	256	276.9	273.2	103.9	266.5	262.6	102.6	267.9	264.0	103.1	0.8
3	1770-1887DCT	NORWALK	FLAX HIL	1	256	268.1	275.4	103.8	255.9	262.4	102.5	256.9	263.4	102.9	0.9
3	STONYHILL1T	NORWALK	FLAX HIL	1	256	268.1	275.4	103.8	255.9	262.4	102.5	256.9	263.4	102.9	0.9
3	347LINE	NORWALK	FLAX HIL	1	256	268.1	274.8	103.7	255.9	262.4	102.5	256.9	263.4	102.9	0.8
3	347LREAC	NORWALK	FLAX HIL	1	256	268.1	274.8	103.7	255.9	262.4	102.5	256.9	263.4	102.9	0.8
2	MONTVSTBKR	NORWALK	FLAX HIL	1	256	276.9	274.1	104.3	266.5	262.1	102.4	267.9	263.3	102.9	1.4
2	353NLINE	NORWALK	FLAX HIL	1	256	276.9	273.4	104.0	266.5	262.0	102.4	267.9	263.2	102.8	1.2
2	364+AUTO	NORWALK	FLAX HIL	1	256	276.9	274.0	104.2	266.5	262.0	102.3	267.9	263.2	102.8	1.4
3	EDEVDEV1	NORWALK	FLAX HIL	1	256	268.1	277.0	104.5	255.9	261.9	102.3	256.9	262.9	102.7	1.8
3	STEVENSNSTK	NORWALK	FLAX HIL	1	256	268.1	275.0	103.7	255.9	261.8	102.3	256.9	262.9	102.7	1.0
3	TRIANGLE4T	NORWALK	FLAX HIL	1	256	268.1	274.4	103.4	255.9	261.9	102.3	256.9	262.9	102.7	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	353N+AUTO	NORWALK	FLAX HIL	1	256	276.9	273.1	103.9	266.5	261.7	102.2	267.9	262.8	102.7	1.2
2	1767-353NDCT	NORWALK	FLAX HIL	1	256	276.9	273.0	103.9	266.5	261.6	102.2	267.9	262.7	102.6	1.3
3	1163-1550D-2	NORWALK	FLAX HIL	1	256	268.1	274.4	103.5	255.9	261.7	102.2	256.9	262.8	102.6	0.9
3	1800-1810DCT	NORWALK	FLAX HIL	1	256	268.1	274.3	103.5	255.9	261.7	102.2	256.9	262.8	102.6	0.9
3	SOTHNGTN24T	NORWALK	FLAX HIL	1	256	268.1	274.3	103.5	255.9	261.7	102.2	256.9	262.8	102.6	0.9
3	SOTHNGTN28T	NORWALK	FLAX HIL	1	256	268.1	274.4	103.5	255.9	261.7	102.2	256.9	262.8	102.6	0.9
3	SCOVrk5TSTK	NORWALK	FLAX HIL	1	256	268.1	272.0	102.7	255.9	262.3	102.5	256.9	262.3	102.5	0.2
3	1505-1607DCT	NORWALK	FLAX HIL	1	256	268.1	273.6	103.2	255.9	261.2	102.0	256.9	262.2	102.4	0.8
3	MIXAVE1	NORWALK	FLAX HIL	1	256	268.1	272.9	102.9	255.9	261.2	102.0	256.9	262.2	102.4	0.5
3	1560-1570DCT	NORWALK	FLAX HIL	1	256	268.1	272.8	102.9	255.9	261.1	102.0	256.9	262.0	102.3	0.6
3	BATESROCK1T	NORWALK	FLAX HIL	1	256	268.1	273.2	103.0	255.9	260.4	101.7	256.9	261.4	102.1	0.9
2	1470-1720DCT	NORWALK	FLAX HIL	1	256	276.9	273.5	103.8	266.5	259.8	101.5	267.9	261.4	102.1	1.7
2	NORWALKST1	NORWALK	FLAX HIL	1	256	276.9	273.5	103.7	266.5	259.8	101.5	267.9	261.4	102.1	1.6
2	1470LINE	NORWALK	FLAX HIL	1	256	276.9	272.4	103.4	266.5	259.9	101.5	267.9	261.4	102.1	1.3
2	1750LINE	NORWALK	FLAX HIL	1	256	276.9	269.9	102.6	266.5	259.6	101.4	267.9	261.0	102.0	0.6
3	COLONY1T	NORWALK	FLAX HIL	1	256	268.1	272.2	102.7	255.9	259.9	101.5	256.9	260.9	101.9	0.8
3	1466-362EDCT	NORWALK	FLAX HIL	1	256	268.1	270.0	101.9							
2	SCOVrk5TSTK	NORWALK	FLAX HIL	1	256	276.9	283.3	108.0	266.5	260.7	101.8	267.9	260.7	101.8	6.2
3	TRPFALLST1	NORWALK	FLAX HIL	1	256	268.1	271.7	102.5	255.9	259.7	101.5	256.9	260.7	101.8	0.7
3	1800-1825DCT	NORWALK	FLAX HIL	1	256	268.1	272.2	102.7	255.9	259.7	101.4	256.9	260.7	101.8	0.9
3	1280-1870DCT	NORWALK	FLAX HIL	1	256	268.1	271.8	102.5	255.9	259.6	101.4	256.9	260.6	101.8	0.7
3	1570-1575DCT	NORWALK	FLAX HIL	1	256	268.1	271.9	102.5	255.9	259.6	101.4	256.9	260.6	101.8	0.7
3	QUINIPACST1	NORWALK	FLAX HIL	1	256	268.1	271.7	102.5	255.9	259.6	101.4	256.9	260.6	101.8	0.7
3	TRIANGLE3T	NORWALK	FLAX HIL	1	256		NC		255.9	259.6	101.4	256.9	260.6	101.8	
2	OLDTOWNST	NORWALK	FLAX HIL	1	256	276.9	269.8	102.7	266.5	259.3	101.3	267.9	260.7	101.8	0.9
3	362ELINE	NORWALK	FLAX HIL	1	256	268.1	269.9	101.8							
3	PLUMNOR	NORWALK	FLAX HIL	1	256	268.1	270.1	101.8							
3	SGTN7TSTK	NORWALK	FLAX HIL	1	256	268.1	269.7	101.8							
3	GREENHLL2T	NORWALK	FLAX HIL	1	256	268.1	272.1	102.6	255.9	259.5	101.3	256.9	260.5	101.7	0.9
3	1470-1565DCT	NORWALK	FLAX HIL	1	256	268.1	272.1	102.4	255.9	259.2	101.3	256.9	260.3	101.7	0.7
3	PEACEABLE1T	NORWALK	FLAX HIL	1	256	268.1	272.1	102.4	255.9	259.2	101.3	256.9	260.3	101.7	0.7
3	SACKETST1	NORWALK	FLAX HIL	1	256	268.1	270.5	102.0	255.9	259.4	101.3	256.9	260.4	101.7	0.3
3	376LINE	NORWALK	FLAX HIL	1	256	268.1	269.5	101.7							
3	1100-1200DCT	NORWALK	FLAX HIL	1	256	268.1	271.2	102.3	255.9	259.0	101.2	256.9	260.0	101.6	0.7
3	1500LINE	NORWALK	FLAX HIL	1	256	268.1	271.3	102.3	255.9	259.1	101.2	256.9	260.1	101.6	0.7
3	1605LINE	NORWALK	FLAX HIL	1	256	268.1	271.3	102.3	255.9	259.1	101.2	256.9	260.1	101.6	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	ESHR-XFR	NORWALK	FLAX HIL	1	256				255.9	259.0	101.2	256.9	260.0	101.6	
3	1760+1876LNS	NORWALK	FLAX HIL	1	256	268.1	271.9	102.5	255.9	258.8	101.1	256.9	259.8	101.5	1.0
3	PLUMTREE28T	NORWALK	FLAX HIL	1	256	268.1	271.8	102.5	255.9	258.7	101.1	256.9	259.7	101.5	1.0
3	1505LINE	NORWALK	FLAX HIL	1	256	268.1	271.1	102.3	255.9	258.9	101.1	256.9	259.9	101.5	0.8
3	BECONFSTK	NORWALK	FLAX HIL	1	256	268.1	271.1	102.2	255.9	258.8	101.1	256.9	259.7	101.5	0.7
3	1261-1620SDC	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5							
3	371-383DCT	NORWALK	FLAX HIL	1	256	268.1	269.1	101.5							
3	1355-1610DCT	NORWALK	FLAX HIL	1	256	268.1	271.4	102.4	255.9	258.6	101.0	256.9	259.6	101.4	1.0
3	SOTHNGTN13T	NORWALK	FLAX HIL	1	256	268.1	271.4	102.4	255.9	258.6	101.0	256.9	259.6	101.4	1.0
3	SOTHNGTN20T	NORWALK	FLAX HIL	1	256	268.1	271.4	102.4	255.9	258.6	101.0	256.9	259.6	101.4	1.0
3	WBROOKFLD1T	NORWALK	FLAX HIL	1	256	268.1	271.5	102.4	255.9	258.7	101.0	256.9	259.7	101.4	1.0
3	1770LINE	NORWALK	FLAX HIL	1	256	268.1	271.4	102.3	255.9	258.7	101.0	256.9	259.7	101.4	0.9
3	PLUMTREE25T	NORWALK	FLAX HIL	1	256	268.1	271.2	102.3	255.9	258.7	101.0	256.9	259.7	101.4	0.9
3	1394-1515DCT	NORWALK	FLAX HIL	1	256	268.1	271.0	102.2	255.9	258.6	101.0	256.9	259.6	101.4	0.8
3	1670-1830DCT	NORWALK	FLAX HIL	1	256	268.1	270.7	102.1	255.9	258.5	101.0	256.9	259.5	101.4	0.7
3	SOTHNGTN16T	NORWALK	FLAX HIL	1	256	268.1	270.7	102.1	255.9	258.5	101.0	256.9	259.5	101.4	0.7
3	MLLRVR2TSTK	NORWALK	FLAX HIL	1	256	268.1	270.4	102.0	255.9	258.6	101.0	256.9	259.6	101.4	0.6
3	WOODMNT1TSTK	NORWALK	FLAX HIL	1	256	268.1	271.1	102.2	255.9	259.2	101.3	256.9	259.4	101.3	0.9
3	1690LINE	NORWALK	FLAX HIL	1	256	268.1	270.9	102.2	255.9	258.4	101.0	256.9	259.4	101.3	0.9
3	310-383DCT	NORWALK	FLAX HIL	1	256	268.1	272.2	102.7	255.9	258.4	100.9	256.9	259.3	101.3	1.4
3	1272-1721DCT	NORWALK	FLAX HIL	1	256	268.1	270.7	102.2	255.9	258.3	100.9	256.9	259.3	101.3	0.9
3	1780LINE	NORWALK	FLAX HIL	1	256	268.1	271.0	102.2	255.9	258.3	100.9	256.9	259.3	101.3	0.9
3	1790LINE	NORWALK	FLAX HIL	1	256	268.1	271.0	102.2	255.9	258.3	100.9	256.9	259.3	101.3	0.9
3	1355LINE	NORWALK	FLAX HIL	1	256	268.1	270.6	102.1	255.9	258.4	100.9	256.9	259.4	101.3	0.8
3	BUNKERH2T	NORWALK	FLAX HIL	1	256	268.1	270.7	102.1	255.9	258.3	100.9	256.9	259.3	101.3	0.8
3	EMERIDEN1T	NORWALK	FLAX HIL	1	256	268.1	270.5	102.0	255.9	258.2	100.9	256.9	259.2	101.3	0.7
3	BROADWYST1	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	258.3	100.9	256.9	259.3	101.3	0.6
3	MLLRVR1TSTK	NORWALK	FLAX HIL	1	256	268.1	269.8	101.8	255.9	258.4	100.9	256.9	259.4	101.3	0.5
3	1732-1788DCT	NORWALK	FLAX HIL	1	256	268.1	270.4	102.0	255.9	258.0	100.8	256.9	259.0	101.2	0.8
3	88005ALINE	NORWALK	FLAX HIL	1	256	268.1	269.8	101.8	255.9	258.0	100.8	256.9	259.0	101.2	0.6
3	DEVSWS4TSTK	NORWALK	FLAX HIL	1	256	268.1	269.8	101.8	255.9	258.0	100.8	256.9	259.0	101.2	0.6
3	88006ALINE	NORWALK	FLAX HIL	1	256	268.1	269.6	101.7	255.9	258.2	100.8	256.9	259.2	101.2	0.5
3	89006BLINE-1	NORWALK	FLAX HIL	1	256	268.1	269.6	101.7	255.9	258.2	100.8	256.9	259.2	101.2	0.5
3	BAIRDASTK	NORWALK	FLAX HIL	1	256	268.1	269.5	101.6	255.9	258.0	100.8	256.9	259.0	101.2	0.4
3	JUNEST1	NORWALK	FLAX HIL	1	256	268.1	270.6	102.1	255.9	257.9	100.8	256.9	258.9	101.1	1.0
3	1820LINE	NORWALK	FLAX HIL	1	256	268.1	270.3	101.9	255.9	257.9	100.8	256.9	258.9	101.1	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1575-1990DCT	NORWALK	FLAX HIL	1	256	268.1	270.6	102.1	255.9	257.9	100.7	256.9	258.9	101.1	1.0
3	1272+1445LNS	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	257.8	100.7	256.9	258.8	101.1	0.8
3	1443+1759LNS	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	257.8	100.7	256.9	258.8	101.1	0.8
3	1575-1585DCT	NORWALK	FLAX HIL	1	256	268.1	270.2	101.9	255.9	257.9	100.7	256.9	258.9	101.1	0.8
3	1810-1825DCT	NORWALK	FLAX HIL	1	256	268.1	270.2	101.9	255.9	257.8	100.7	256.9	258.8	101.1	0.8
3	BUNKERH3T	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	257.9	100.7	256.9	258.9	101.1	0.8
3	SOTHNGTN22T	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	257.8	100.7	256.9	258.8	101.1	0.8
3	SOTHNGTN23T	NORWALK	FLAX HIL	1	256	268.1	270.2	101.9	255.9	257.9	100.7	256.9	258.9	101.1	0.8
3	1580-1585DCT	NORWALK	FLAX HIL	1	256	268.1	270.0	101.8	255.9	257.7	100.7	256.9	258.7	101.1	0.7
3	SNAUGA1T	NORWALK	FLAX HIL	1	256	268.1	270.0	101.8	255.9	257.7	100.7	256.9	258.7	101.1	0.7
3	GRNDAV5TSTK	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	257.7	100.7	256.9	258.7	101.1	0.1
3	GRNDAV6TSTK	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	257.7	100.7	256.9	258.7	101.1	0.1
3	318LINE	NORWALK	FLAX HIL	1	256	268.1	273.7	103.3	255.9	257.5	100.6	256.9	258.7	101.1	2.2
3	1630LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1							
3	HADDAM1T	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1							
3	NOHAVN2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1							
3	8909BLINE-2	NORWALK	FLAX HIL	1	256	268.1	269.0	101.5	266.5	267.7	104.6	256.9	258.5	101.0	0.5
3	FROSTBR15T	NORWALK	FLAX HIL	1	256	268.1	270.1	101.9	255.9	257.7	100.7	256.9	258.7	101.0	0.9
3	1575LINE	NORWALK	FLAX HIL	1	256	268.1	269.9	101.8	255.9	257.6	100.6	256.9	258.6	101.0	0.8
3	1668-1721DCT	NORWALK	FLAX HIL	1	256	268.1	270.0	101.8	255.9	257.6	100.6	256.9	258.6	101.0	0.8
3	BUNKERH1T	NORWALK	FLAX HIL	1	256	268.1	269.9	101.8	255.9	257.6	100.6	256.9	258.6	101.0	0.8
3	100+400LINES	NORWALK	FLAX HIL	1	256	268.1	269.7	101.7	255.9	257.5	100.6	256.9	258.5	101.0	0.7
3	1050+1766LNS	NORWALK	FLAX HIL	1	256	268.1	269.7	101.7	255.9	257.5	100.6	256.9	258.5	101.0	0.7
3	1100-1300DCT	NORWALK	FLAX HIL	1	256	268.1	269.6	101.7	255.9	257.4	100.6	256.9	258.4	101.0	0.7
3	1163+1910LNS	NORWALK	FLAX HIL	1	256	268.1	269.8	101.7	255.9	257.4	100.6	256.9	258.4	101.0	0.7
3	SOTHNGTN26T	NORWALK	FLAX HIL	1	256	268.1	269.8	101.7	255.9	257.4	100.6	256.9	258.4	101.0	0.7
3	DEVSWST1TSTK	NORWALK	FLAX HIL	1	256	268.1	269.3	101.6	255.9	257.5	100.6	256.9	258.5	101.0	0.6
3	DEVSWST3TSTK	NORWALK	FLAX HIL	1	256	268.1	269.3	101.6	255.9	257.5	100.6	256.9	258.5	101.0	0.6
3	8809ALINE-2	NORWALK	FLAX HIL	1	256	268.1	269.0	101.5	255.9	257.5	100.6	256.9	258.5	101.0	0.5
3	SGTN3TSTK	NORWALK	FLAX HIL	1	256	268.1	273.4	103.2	255.9	257.2	100.5	256.9	258.5	101.0	2.2
3	SGTN4TSTK	NORWALK	FLAX HIL	1	256	268.1	273.1	103.2	255.9	257.2	100.5	256.9	258.6	101.0	2.2
2	1222LINE	NORWALK	FLAX HIL	1	256	276.9	267.7	101.9	266.5	257.3	100.5	267.9	258.7	101.0	0.9
3	HAWTHORNST	NORWALK	FLAX HIL	1	256	268.1	270.0	101.7	255.9	257.3	100.5	256.9	258.3	100.9	0.8
3	1070+1490LNS	NORWALK	FLAX HIL	1	256	268.1	269.5	101.6	255.9	257.3	100.5	256.9	258.3	100.9	0.7
3	1235LINE	NORWALK	FLAX HIL	1	256	268.1	269.5	101.6	255.9	257.2	100.5	256.9	258.2	100.9	0.7
2	CARD1TSTK	NORWALK	FLAX HIL	1	256	276.9	267.3	101.7	266.5	257.1	100.4	267.9	258.4	100.9	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	CARD3TSTK	NORWALK	FLAX HIL	1	256	276.9	267.4	101.7	266.5	257.1	100.4	267.9	258.4	100.9	0.8
2	330LINE	NORWALK	FLAX HIL	1	256	276.9	267.0	101.5	266.5	257.1	100.4	267.9	258.4	100.9	0.6
2	1720-1730ADC	NORWALK	FLAX HIL	1	256	276.9	265.3	100.9							
3	NWALLING1T	NORWALK	FLAX HIL	1	256	268.1	269.4	101.6	255.9	257.2	100.5	256.9	258.2	100.8	0.8
3	DEVSWST2TSTK	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5	255.9	257.2	100.5	256.9	258.2	100.8	0.7
3	1550+1950LNS	NORWALK	FLAX HIL	1	256	268.1	269.4	101.6	255.9	257.1	100.4	256.9	258.1	100.8	0.8
3	1000-1090DCT	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5	255.9	257.1	100.4	256.9	258.0	100.8	0.7
3	1000LINE	NORWALK	FLAX HIL	1	256	268.1	269.1	101.5	255.9	257.0	100.4	256.9	257.9	100.8	0.7
3	362LINE	NORWALK	FLAX HIL	1	256				255.9	256.9	100.4	256.9	258.0	100.8	
3	1238+1813LNS	NORWALK	FLAX HIL	1	256	268.1	267.1	100.8							
3	1759-353NDCT	NORWALK	FLAX HIL	1	256	268.1	269.0	101.5	255.9	257.0	100.4	256.9	257.9	100.7	0.8
3	DEVAUT	NORWALK	FLAX HIL	1	256	268.1	271.7	102.3	255.9	256.8	100.3	256.9	257.9	100.7	1.6
3	383LINE	NORWALK	FLAX HIL	1	256	268.1	269.4	101.6	255.9	256.8	100.3	256.9	257.8	100.7	0.9
3	694LINE	NORWALK	FLAX HIL	1	256	268.1	269.1	101.5	255.9	256.8	100.3	256.9	257.8	100.7	0.8
3	1250LINE	NORWALK	FLAX HIL	1	256	268.1	268.9	101.4	255.9	256.7	100.3	256.9	257.7	100.7	0.7
3	1280LINE	NORWALK	FLAX HIL	1	256	268.1	268.9	101.4	255.9	256.7	100.3	256.9	257.7	100.7	0.7
3	88003ALINE-2	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.8	100.3	256.9	257.8	100.7	0.5
3	89003BLINE-2	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.8	100.3	256.9	257.8	100.7	0.5
3	8400LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1	255.9	256.9	100.3	256.9	257.9	100.7	0.4
3	GRNDAV4TSTK	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1	255.9	256.8	100.3	256.9	257.8	100.7	0.4
3	GRNDAV7TSTK	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1	255.9	256.8	100.3	256.9	257.8	100.7	0.4
2	1470-1637DCT	NORWALK	FLAX HIL	1	256	276.9	270.0	102.4	266.5	256.3	100.1	267.9	257.9	100.7	1.7
3	1767-353NDCT	NORWALK	FLAX HIL	1	256	268.1	266.9	100.7							
3	353NLINE	NORWALK	FLAX HIL	1	256	268.1	267.1	100.7							
3	88005ALINE-1	NORWALK	FLAX HIL	1	256	268.1	267.2	100.7							
3	89005BLINE	NORWALK	FLAX HIL	1	256	268.1	267.1	100.7							
3	89005BLINE-1	NORWALK	FLAX HIL	1	256	268.1	267.2	100.7							
3	DEVON23TSTK	NORWALK	FLAX HIL	1	256	268.1	267.0	100.7							
3	400LINE	NORWALK	FLAX HIL	1	256	268.1	268.9	101.4	255.9	256.7	100.3	256.9	257.7	100.6	0.8
3	GRNDAV3TSTK	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.7	100.3	256.9	257.7	100.6	0.6
2	353LINE	NORWALK	FLAX HIL	1	256	276.9	269.6	102.6	266.5	256.5	100.2	267.9	257.6	100.6	2.0
3	NOHAVN1TSTK	NORWALK	FLAX HIL	1	256	268.1	270.2	101.9	255.9	256.5	100.2	256.9	257.6	100.6	1.3
3	1760LINE	NORWALK	FLAX HIL	1	256	268.1	269.4	101.6	255.9	256.4	100.2	256.9	257.4	100.6	1.0
3	1887LINE	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5	255.9	256.5	100.2	256.9	257.6	100.6	0.9
3	FROSTBR27T	NORWALK	FLAX HIL	1	256	268.1	269.0	101.5	255.9	256.4	100.2	256.9	257.4	100.6	0.9
3	1070-1080DCT	NORWALK	FLAX HIL	1	256	268.1	268.7	101.3	255.9	256.5	100.2	256.9	257.5	100.6	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	1870LINE	NORWALK	FLAX HIL	1	256	268.1	268.7	101.3	255.9	256.5	100.2	256.9	257.5	100.6	0.7
3	89006BLINE	NORWALK	FLAX HIL	1	256	268.1	268.6	101.3	255.9	256.6	100.2	256.9	257.7	100.6	0.7
3	BAIRDBSTK	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.5	100.2	256.9	257.5	100.6	0.7
3	1640LINE	NORWALK	FLAX HIL	1	256	268.1	268.4	101.2	255.9	256.4	100.2	256.9	257.4	100.6	0.6
3	8100LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.6	100.2	256.9	257.6	100.6	0.6
3	8200LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.6	100.2	256.9	257.6	100.6	0.6
3	ESHORE12TSTK	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.6	100.2	256.9	257.6	100.6	0.6
3	GRNDAV1TSTK	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.6	100.2	256.9	257.6	100.6	0.6
3	352LINE	NORWALK	FLAX HIL	1	256	268.1	267.5	101.0	255.9	256.6	100.2	256.9	257.6	100.6	0.4
3	1990LINE	NORWALK	FLAX HIL	1	256	268.1	268.9	101.5	255.9	256.4	100.1	256.9	257.4	100.6	0.9
3	348N+AUTO	NORWALK	FLAX HIL	1	256	268.1	266.6	100.6							
3	353N+AUTO	NORWALK	FLAX HIL	1	256	268.1	266.8	100.6							
3	371+AUTO	NORWALK	FLAX HIL	1	256	268.1	266.7	100.6							
3	371LINE	NORWALK	FLAX HIL	1	256	268.1	266.8	100.6							
3	88005ALINE-2	NORWALK	FLAX HIL	1	256	268.1	266.9	100.6							
3	89005BLINE-2	NORWALK	FLAX HIL	1	256	268.1	266.9	100.6							
3	8909BLINE-1	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0	266.5	266.5	104.1	256.9	257.2	100.5	0.5
3	667-690LINE	NORWALK	FLAX HIL	1	256	268.1	268.6	101.3	255.9	256.4	100.2	256.9	257.4	100.5	0.8
3	1560LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.4	100.2	256.9	257.3	100.5	0.7
3	310LINE	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5	255.9	256.3	100.1	256.9	257.3	100.5	1.0
3	SOTHNGTN14T	NORWALK	FLAX HIL	1	256	268.1	268.9	101.4	255.9	256.2	100.1	256.9	257.2	100.5	0.9
3	1572+1772LNS	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.4	100.1	256.9	257.4	100.5	0.8
3	1607LINE	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.3	100.1	256.9	257.3	100.5	0.8
3	1730BLINE	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.4	100.1	256.9	257.4	100.5	0.8
3	DEVON10TSTK	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.4	100.1	256.9	257.4	100.5	0.8
3	DEVON8TSTK	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3	255.9	256.4	100.1	256.9	257.4	100.5	0.8
3	1208-1640DCT	NORWALK	FLAX HIL	1	256	268.1	268.4	101.2	255.9	256.3	100.1	256.9	257.3	100.5	0.7
3	1580-1730BDC	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.3	100.1	256.9	257.3	100.5	0.7
3	1670-1771DCT	NORWALK	FLAX HIL	1	256	268.1	268.5	101.2	255.9	256.2	100.1	256.9	257.2	100.5	0.7
3	BRANFRDRR1T	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2	255.9	256.2	100.1	256.9	257.2	100.5	0.7
3	SOTHNGTN15T	NORWALK	FLAX HIL	1	256	268.1	268.5	101.2	255.9	256.2	100.1	256.9	257.2	100.5	0.7
3	84004LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1	255.9	256.3	100.1	256.9	257.3	100.5	0.6
3	88003ALINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1	255.9	256.3	100.1	256.9	257.3	100.5	0.6
3	89003BLINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1	255.9	256.3	100.1	256.9	257.3	100.5	0.6
3	GRNDAV2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1	255.9	256.2	100.1	256.9	257.2	100.5	0.6
3	WRIVER1TSTK	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1	255.9	256.3	100.1	256.9	257.3	100.5	0.6

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	WRIVER2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1	255.9	256.3	100.1	256.9	257.3	100.5	0.6
3	8809ALINE-1	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0	255.9	256.2	100.1	256.9	257.2	100.5	0.5
3	1622-1887DCT	NORWALK	FLAX HIL	1	256	268.1	266.4	100.5							
3	1813LINE	NORWALK	FLAX HIL	1	256	268.1	266.4	100.5							
2	MANCH21TSTK	NORWALK	FLAX HIL	1	256	276.9	264.3	100.5							
3	ONE1385	NORWALK	FLAX HIL	1	256	268.1	266.3	100.5							
3	SGTN1TSTK	NORWALK	FLAX HIL	1	256	268.1	266.5	100.5							
3	SHEPAUG13A	NORWALK	FLAX HIL	1	256	268.1	266.4	100.5							
3	SOUTH1XAUTO	NORWALK	FLAX HIL	1	256	268.1	269.0	101.4	255.9	256.1	100.1	256.9	257.1	100.4	1.0
3	88003ALINE-3	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0	255.9	256.1	100.1	256.9	257.1	100.4	0.6
3	89003BLINE-3	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0	255.9	256.1	100.1	256.9	257.1	100.4	0.6
3	SOTHNGTN12T	NORWALK	FLAX HIL	1	256	268.1	269.2	101.5	255.9	256.1	100.0	256.9	257.1	100.4	1.1
3	1610LINE	NORWALK	FLAX HIL	1	256	268.1	268.8	101.4	255.9	256.1	100.0	256.9	257.1	100.4	1.0
3	1191LINE	NORWALK	FLAX HIL	1	256	268.1	268.4	101.2	255.9	256.1	100.0	256.9	257.1	100.4	0.8
3	1272LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.1	100.0	256.9	257.0	100.4	0.8
3	1445LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.1	100.0	256.9	257.1	100.4	0.8
3	1585LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2	255.9	256.1	100.0	256.9	257.0	100.4	0.8
3	1759LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2	255.9	256.0	100.0	256.9	257.0	100.4	0.8
3	1440LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1	255.9	256.0	100.0	256.9	257.0	100.4	0.7
3	DEVON27TSTK	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0	255.9	256.1	100.0	256.9	257.1	100.4	0.6
3	FROSTBR21T	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3				256.9	256.9	100.4	0.9
3	1443LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2				256.9	257.0	100.4	0.8
3	1070LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	257.0	100.4	0.7
3	1080-1280DCT	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1090LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	257.0	100.4	0.7
3	1460LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.9	100.4	0.7
3	1490LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1537LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.9	100.4	0.7
3	1668LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1670LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	256.9	100.4	0.7
3	1704LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1721LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1740LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1753LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1767LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1771LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	257.0	100.4	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	1784LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.1				256.9	256.9	100.4	0.7
3	1785LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1792LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	8500LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	88003ALINE-1	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	257.0	100.4	0.7
3	89003BLINE-1	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	257.0	100.4	0.7
3	9502LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	WATERST1TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.4	0.7
3	1300LINE	NORWALK	FLAX HIL	1	256	268.1	266.3	100.4							
3	1545LINE	NORWALK	FLAX HIL	1	256	268.1	266.1	100.4							
2	1779-395DCT	NORWALK	FLAX HIL	1	256	276.9	264.0	100.4							
2	395LINE	NORWALK	FLAX HIL	1	256	276.9	264.0	100.4							
3	MONTVSTBKR	NORWALK	FLAX HIL	1	256	268.1	266.2	100.4							
3	WESTON1T	NORWALK	FLAX HIL	1	256	268.1	266.8	100.4							
3	9500LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1	266.5	266.5	104.1	256.9	256.9	100.3	0.8
3	SGTN6TSTK	NORWALK	FLAX HIL	1	256	268.1	268.8	101.4				256.9	256.9	100.3	1.1
3	329LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.3				256.9	256.8	100.3	1.0
3	ROCKRIVER1T	NORWALK	FLAX HIL	1	256	268.1	268.5	101.3				256.9	256.8	100.3	1.0
3	1208LINE	NORWALK	FLAX HIL	1	256	268.1	268.3	101.2				256.9	256.8	100.3	0.9
3	1261LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2				256.9	256.7	100.3	0.9
3	1620SLINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2				256.9	256.7	100.3	0.9
3	100LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1050LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.1				256.9	256.7	100.3	0.8
3	1060-1270DCT	NORWALK	FLAX HIL	1	256	268.1	267.9	101.1				256.9	256.9	100.3	0.8
3	1060LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.1				256.9	256.8	100.3	0.8
3	1100LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1163LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1165LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.1				256.9	256.8	100.3	0.8
3	1200LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1206LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1207LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1270LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.9	100.3	0.8
3	1310LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1337LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.1				256.9	256.9	100.3	0.8
3	1394LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1410LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	1440-1450DCT	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1450LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1466LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1508LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	256.7	100.3	0.8
3	1550LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.1				256.9	256.7	100.3	0.8
3	1572LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1588LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1594LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1620N-1975DC	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.7	100.3	0.8
3	1620NLINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1655LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.7	100.3	0.8
3	1675LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1751LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1752LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.8	100.3	0.8
3	1756LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1763LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1765LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1766LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.8	100.3	0.8
3	1769LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1772LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1775LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1779LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1786LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1788LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1800-1860LNS	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	1810LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.7	100.3	0.8
3	1825LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1830LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1835LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.8	100.3	0.8
3	1900LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1921LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1975LINE	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	689LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	693LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	8300LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.8	100.3	0.8
3	8700LINE	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	ALLINGS2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	BRANFORD4T	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	256.8	100.3	0.8
3	DEVON12TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	LOSSNHAV	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	LOSSNOR1	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	LOSSNOR2	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	MANCHAUTO1	NORWALK	FLAX HIL	1	256	268.1	268.0	101.1				256.9	256.8	100.3	0.8
3	WATERST2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.1				256.9	256.9	100.3	0.8
3	1060-1165DCT	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.6	100.3	0.7
3	1515LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.7	100.3	0.7
3	1580LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.8	100.3	0.7
3	1625LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.8	100.3	0.7
3	1777-1779DCT	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	1777LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	1783LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	1910LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	1950LINE	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	301-302LNS	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.7	100.3	0.7
3	ALLINGS1TSTK	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.8	100.3	0.7
3	DEVON11TSTK	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.8	100.3	0.7
2	LOLAKERD	NORWALK	FLAX HIL	1	256	276.9	265.6	101.0				267.9	256.7	100.3	0.7
3	SOUTH2XAUTO	NORWALK	FLAX HIL	1	256	268.1	267.9	101.0				256.9	256.7	100.3	0.7
3	BRANFORD2T	NORWALK	FLAX HIL	1	256	268.1	267.4	100.8				256.9	256.8	100.3	0.5
3	EDEVDEV2	NORWALK	FLAX HIL	1	256	268.1	266.8	100.7				256.9	256.8	100.3	0.4
3	DEVON4TSTK	NORWALK	FLAX HIL	1	256							256.9	256.9	100.3	
3	HADDAMAT	NORWALK	FLAX HIL	1	256							256.9	256.7	100.3	
3	ORANG-ESHR	NORWALK	FLAX HIL	1	256							256.9	256.8	100.3	
3	1238LINE	NORWALK	FLAX HIL	1	256	268.1	265.8	100.3							
3	1470-1720DCT	NORWALK	FLAX HIL	1	256	268.1	266.7	100.3							
3	1730CLINE	NORWALK	FLAX HIL	1	256	268.1	265.8	100.3							
3	329-352DCT	NORWALK	FLAX HIL	1	256	268.1	265.3	100.3							
3	352+AUTO	NORWALK	FLAX HIL	1	256	268.1	265.3	100.3							
3	364+AUTO	NORWALK	FLAX HIL	1	256	268.1	265.9	100.3							
3	NORWALKST1	NORWALK	FLAX HIL	1	256	268.1	266.7	100.3							
3	PEQUON32TSTK	NORWALK	FLAX HIL	1	256	268.1	265.8	100.3							
3	8904BLINE	NORWALK	FLAX HIL	1	256	268.1	267.6	100.9	266.5	266.7	104.2	256.9	256.5	100.2	0.7

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	SGTN5TSTK	NORWALK	FLAX HIL	1	256	268.1	268.1	101.2				256.9	256.5	100.2	1.0
3	1876LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.1				256.9	256.4	100.2	0.9
2	1730ALINE	NORWALK	FLAX HIL	1	256	276.9	265.3	101.0				267.9	256.4	100.2	0.8
3	1732LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.6	100.2	0.8
3	1751-1777DCT	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.5	100.2	0.8
3	1773LINE	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.6	100.2	0.8
3	1821LINE	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.6	100.2	0.8
3	1836LINE	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.6	100.2	0.8
3	SOTHNGTN25T	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.5	100.2	0.8
3	1207-1775DCT	NORWALK	FLAX HIL	1	256	268.1	267.6	100.9				256.9	256.5	100.2	0.7
3	1685LINE	NORWALK	FLAX HIL	1	256	268.1	267.6	100.9				256.9	256.5	100.2	0.7
3	8804ALINE	NORWALK	FLAX HIL	1	256	268.1	267.6	100.9				256.9	256.5	100.2	0.7
3	DEVSING1	NORWALK	FLAX HIL	1	256	268.1	267.3	100.8				256.9	256.6	100.2	0.6
3	TRIANGLE2T	NORWALK	FLAX HIL	1	256		NC					256.9	256.5	100.2	
3	1470LINE	NORWALK	FLAX HIL	1	256	268.1	266.2	100.2							
3	1722LINE	NORWALK	FLAX HIL	1	256	268.1	265.8	100.2							
3	1975-362WDCT	NORWALK	FLAX HIL	1	256	268.1	265.7	100.2							
3	348NLINE	NORWALK	FLAX HIL	1	256	268.1	265.8	100.2							
3	362WLINE	NORWALK	FLAX HIL	1	256	268.1	265.7	100.2							
2	DEVON3TSTK	NORWALK	FLAX HIL	1	256	276.9	273.5	104.1				267.9	256.2	100.1	4.0
3	WALLING2TSTK	NORWALK	FLAX HIL	1	256	268.1	269.6	101.7				256.9	256.4	100.1	1.6
3	310-368DCT	NORWALK	FLAX HIL	1	256	268.1	269.3	101.6				256.9	256.2	100.1	1.5
3	1342LINE	NORWALK	FLAX HIL	1	256	268.1	268.8	101.4				256.9	256.3	100.1	1.3
3	BOKUM2T	NORWALK	FLAX HIL	1	256	268.1	268.8	101.4				256.9	256.3	100.1	1.3
3	BOKUM3T	NORWALK	FLAX HIL	1	256	268.1	268.8	101.4				256.9	256.3	100.1	1.3
3	8600LINE	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2				256.9	256.4	100.1	1.1
3	BRANFORD1T	NORWALK	FLAX HIL	1	256	268.1	268.2	101.2				256.9	256.3	100.1	1.1
3	1720LINE	NORWALK	FLAX HIL	1	256	268.1	268.6	101.1				256.9	256.2	100.1	1.0
3	1618LINE	NORWALK	FLAX HIL	1	256	268.1	267.8	101.0				256.9	256.3	100.1	0.9
3	1726LINE	NORWALK	FLAX HIL	1	256	268.1	267.5	100.9				256.9	256.3	100.1	0.8
3	500LINE	NORWALK	FLAX HIL	1	256	268.1	267.4	100.9				256.9	256.3	100.1	0.8
3	381LINE	NORWALK	FLAX HIL	1	256	268.1	267.3	100.8				256.9	256.1	100.1	0.7
3	381LREAC	NORWALK	FLAX HIL	1	256	268.1	267.3	100.8				256.9	256.1	100.1	0.7
3	1570LINE	NORWALK	FLAX HIL	1	256	268.1	267.0	100.7				256.9	256.1	100.1	0.6
3	DEVON7TSTK	NORWALK	FLAX HIL	1	256	268.1	267.0	100.7				256.9	256.1	100.1	0.6
3	1622LINE	NORWALK	FLAX HIL	1	256	268.1	265.4	100.1							

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
3	362W-376DCT	NORWALK	FLAX HIL	1	256	268.1	265.3	100.1							
3	HADNKSTBKR	NORWALK	FLAX HIL	1	256	268.1	265.3	100.1							
3	WOODMNT2TSTK	NORWALK	FLAX HIL	1	256	268.1	268.4	101.2				256.9	256.1	100.0	1.2
3	368LINE	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.1	100.0	1.0
3	CARD2TSTK	NORWALK	FLAX HIL	1	256	268.1	267.7	101.0				256.9	256.1	100.0	1.0
3	1080-1490DCT	NORWALK	FLAX HIL	1	256	268.1	267.3	100.8				256.9	256.1	100.0	0.8
3	1080LINE	NORWALK	FLAX HIL	1	256	268.1	267.2	100.8				256.9	256.0	100.0	0.8
3	1570-1580DCT	NORWALK	FLAX HIL	1	256	268.1	266.7	100.6				256.9	256.0	100.0	0.6
2	1751-395DCT	NORWALK	FLAX HIL	1	256	276.9	262.9	100.0							
5	LONGMT5TSTK	NRTHPT P	NRTHPRT1	1	263				201.2	508.0	112.9	201.6	501.2	111.4	
5	398LINE	NRTHPT P	NRTHPRT1	1	263				201.2	462.3	102.7	201.6	458.2	101.8	
5	398LREAC	NRTHPT P	NRTHPRT1	1	263				201.2	462.3	102.7	201.6	458.2	101.8	
5	1867-1880DCT	NWLK HAR	ELYAVE	1	263	194.8	440.8	161.9	182.0	422.5	160.7	182.0	422.6	160.7	1.2
4	1867-1880DCT	NWLK HAR	ELYAVE	1	263	165.7	418.3	153.7	153.4	401.7	152.7	152.7	399.9	152.1	1.6
4	113091001DCT	NWLK HAR	ELYAVE	1	263	165.7	294.0	108.2	153.4	285.0	108.4	152.7	284.8	108.3	-0.1
5	113091001DCT	NWLK HAR	ELYAVE	1	263	194.8	293.2	107.9	182.0	283.8	107.9	182.0	283.8	107.9	0.0
5	NORWALKST2	NWLK HAR	ELYAVE	1	263	194.8	287.2	105.5	182.0	270.5	102.9	182.0	270.6	102.9	2.6
5	1416-1880DCT	NWLK HAR	ELYAVE	1	263	194.8	284.3	104.5	182.0	268.9	102.3	182.0	269.1	102.3	2.2
5	1880-1977DCT	NWLK HAR	ELYAVE	1	263	194.8	283.9	104.3	182.0	268.7	102.2	182.0	268.8	102.2	2.1
5	91001LINE	NWLK HAR	ELYAVE	1	263	194.8	278.6	102.5	182.0	268.2	102.0	182.0	268.2	102.0	0.5
5	GLENBROOK3T	NWLK HAR	ELYAVE	1	263	194.8	282.7	103.8	182.0	266.9	101.5	182.0	267.0	101.5	2.3
5	1880LINE	NWLK HAR	ELYAVE	1	263	194.8	282.4	103.8	182.0	266.8	101.4	182.0	266.9	101.5	2.3
5	1867-1977DCT	NWLK HAR	ELYAVE	1	263	194.8	281.6	103.4	182.0	266.4	101.3	182.0	266.5	101.3	2.1
5	1416-1867DCT	NWLK HAR	ELYAVE	1	263	194.8	281.4	103.4	182.0	266.1	101.2	182.0	266.3	101.2	2.2
5	1867LINE	NWLK HAR	ELYAVE	1	263	194.8	280.7	103.1	182.0	265.0	100.8	182.0	265.1	100.8	2.3
5	FLAXHILL2T	NWLK HAR	ELYAVE	1	263	194.8	279.2	102.6	182.0	263.4	100.1	182.0	263.5	100.2	2.4
4	91001LINE	NWLK HAR	ELYAVE	1	263	165.7	272.2	100.1							
5	1880-1890DCT	NWLK HAR	RYTN J B	1	304	175.0	328.1	104.3	170.1	317.5	104.4	170.2	317.4	104.4	-0.1
4	1880-1890DCT	NWLK HAR	RYTN J B	1	304	188.3	328.5	104.4	185.6	316.8	104.2	184.7	316.8	104.2	0.2
2	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.2	362.8	288.0	58.2	362.6	287.8	
5	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.0	361.8	287.2	58.0	361.6	287.0	
3	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		58.1	358.0	284.1	58.1	357.9	284.1	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
4	TRIANGLE2T	PLUMTREE	MIDDLRIV	1	126		NC		57.9	356.4	282.9	57.9	356.4	282.8	
2	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.8	226.3	181.5	58.2	228.6	181.5	58.2	228.5	181.3	0.2
3	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	225.9	179.3	58.1	228.3	181.2	58.1	228.3	181.2	-1.9
5	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.1	180.2	58.0	227.9	180.9	58.0	227.8	180.8	-0.6
4	1060-1165DCT	PLUMTREE	MIDDLRIV	1	126	58.7	226.0	179.8	57.9	227.3	180.4	57.9	227.3	180.4	-0.6
2	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.8	261.1	189.2	79.7	260.4	188.7	
5	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.6	255.9	185.4	79.5	255.4	185.1	
3	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.7	244.0	176.8	79.7	243.7	176.6	
4	TRIANGLE3T	PLUMTREE	TRIANGLE	1	138		NC		79.4	238.4	172.8	79.4	238.3	172.7	
2	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	145.1	105.1	79.8	145.1	105.1	79.7	145.0	105.1	0.0
3	1165LINE	PLUMTREE	TRIANGLE	1	138	80.5	144.7	103.7	79.7	144.9	105.0	79.7	144.9	105.0	-1.3
5	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.9	104.3	79.6	144.6	104.7	79.5	144.5	104.7	-0.4
4	1165LINE	PLUMTREE	TRIANGLE	1	138	80.6	144.8	104.0	79.4	144.2	104.5	79.4	144.2	104.5	-0.5
2	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.9	100.8	79.8	139.1	100.8	79.7	139.0	100.7	0.1
3	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138				79.7	139.0	100.8	79.7	139.0	100.7	
5	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.3	79.6	138.7	100.5	79.5	138.6	100.4	-0.1
4	PLUMTREE31T	PLUMTREE	TRIANGLE	1	138	80.6	139.8	100.0	79.4	138.4	100.3	79.4	138.4	100.3	-0.3
2	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	225.0	135.4	84.4	224.7	135.4	84.3	224.6	135.3	0.1
3	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.1	224.6	133.8	84.3	224.4	135.2	84.3	224.4	135.2	-1.4
5	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.8	134.5	84.1	224.0	135.0	84.1	223.9	134.9	-0.4
4	1060-1270DCT	PLUMTREE	TRIANGLE	2	166	85.2	224.7	134.2	83.9	223.5	134.7	83.9	223.5	134.7	-0.5
2	1416-1867DCT	RYTN J A	NORWALK	1	256	258.7	488.0	186.7	248.9	474.9	185.5	250.2	477.5	186.5	0.2
2	1867-1890DCT	RYTN J A	NORWALK	1	256	258.7	478.8	183.1	248.9	466.1	182.1	250.2	468.9	183.2	-0.1
3	1416-1867DCT	RYTN J A	NORWALK	1	256	249.1	477.5	180.6	237.9	460.2	179.8	238.9	462.0	180.5	0.1
3	1867-1890DCT	RYTN J A	NORWALK	1	256	249.1	470.2	177.7	237.9	449.3	175.5	238.9	451.3	176.3	1.4
2	1867-1977DCT	RYTN J A	NORWALK	1	256	258.7	460.9	176.2	248.9	447.7	174.9	250.2	450.3	175.9	0.3
3	1867-1977DCT	RYTN J A	NORWALK	1	256	249.1	450.2	170.2	237.9	433.1	169.2	238.9	434.9	169.9	0.3
2	1389LINE	RYTN J A	NORWALK	1	256	258.7	428.5	163.1	248.9	411.4	160.7	250.2	413.7	161.6	1.5
2	113091001DCT	RYTN J A	NORWALK	1	256	258.7	416.8	159.6	248.9	409.3	159.9	250.2	411.2	160.6	-1.0
3	113091001DCT	RYTN J A	NORWALK	1	256	249.1	411.8	156.3	237.9	403.1	157.5	238.9	404.5	158.0	-1.7
3	1389LINE	RYTN J A	NORWALK	1	256	249.1	415.6	156.6	237.9	395.3	154.4	238.9	396.9	155.0	1.6
2	FLAXHILL2T	RYTN J A	NORWALK	1	256	258.7	412.2	156.9	248.9	394.4	154.0	250.2	396.6	154.9	2.0
2	1867LINE	RYTN J A	NORWALK	1	256	258.7	397.8	151.8	248.9	380.1	148.5	250.2	382.3	149.4	2.4

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconstructed 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	NORWLKHAR7T	RYTN J A	NORWALK	1	256	258.7	397.8	151.8	248.9	380.1	148.5	250.2	382.3	149.4	2.4
3	FLAXHILL2T	RYTN J A	NORWALK	1	256	249.1	399.6	150.5	237.9	378.8	148.0	238.9	380.4	148.6	1.9
2	1130-1430DCT	RYTN J A	NORWALK	1	256	258.7	384.2	146.7	248.9	376.0	146.9	250.2	377.9	147.6	-0.9
2	1416-1890DCT	RYTN J A	NORWALK	1	256	258.7	381.5	145.8	248.9	373.6	145.9	250.2	375.5	146.7	-0.9
3	1130-1430DCT	RYTN J A	NORWALK	1	256	249.1	379.2	143.6	237.9	370.2	144.6	238.9	371.5	145.1	-1.5
3	1416-1890DCT	RYTN J A	NORWALK	1	256	249.1	377.0	142.8	237.9	368.0	143.7	238.9	369.3	144.3	-1.5
3	1867LINE	RYTN J A	NORWALK	1	256	249.1	384.7	145.2	237.9	364.4	142.3	238.9	366.0	143.0	2.2
3	NORWLKHAR7T	RYTN J A	NORWALK	1	256	249.1	384.7	145.2	237.9	364.4	142.3	238.9	366.0	143.0	2.2
2	1890-1977DCT	RYTN J A	NORWALK	1	256	258.7	357.5	136.5	248.9	349.6	136.6	250.2	351.5	137.3	-0.8
3	1890-1977DCT	RYTN J A	NORWALK	1	256	249.1	353.1	133.6	237.9	344.2	134.5	238.9	345.6	135.0	-1.4
2	91001LINE	RYTN J A	NORWALK	1	256	258.7	332.6	126.9	248.9	323.4	126.3	250.2	325.0	127.0	-0.1
3	91001LINE	RYTN J A	NORWALK	1	256	249.1	325.4	123.0	237.9	314.7	122.9	238.9	315.9	123.4	-0.4
2	1130LINE	RYTN J A	NORWALK	1	256	258.7	312.9	119.3	248.9	303.5	118.6	250.2	305.0	119.1	0.2
2	ASHCREEKBKR	RYTN J A	NORWALK	1	256	258.7	311.9	118.7	248.9	302.6	118.2	250.2	304.2	118.8	-0.1
2	PEQUON12TSTK	RYTN J A	NORWALK	1	256				248.9	300.9	117.5	250.2	302.5	118.2	
2	1430LINE	RYTN J A	NORWALK	1	256	258.7	306.6	116.7	248.9	297.3	116.1	250.2	298.9	116.8	-0.1
2	1130+1416LNS	RYTN J A	NORWALK	1	256	258.7	303.3	115.6	248.9	294.0	114.9	250.2	295.5	115.4	0.2
3	1130LINE	RYTN J A	NORWALK	1	256	249.1	304.9	115.2	237.9	294.2	114.9	238.9	295.3	115.4	-0.2
3	ASHCREEKBKR	RYTN J A	NORWALK	1	256	249.1	304.5	114.9	237.9	294.1	114.9	238.9	295.3	115.3	-0.4
2	SASCOCR1T	RYTN J A	NORWALK	1	256	258.7	302.1	115.1	248.9	292.3	114.2	250.2	293.9	114.8	0.3
2	GLENBROOK8T	RYTN J A	NORWALK	1	256	258.7	301.2	114.7	248.9	292.1	114.1	250.2	293.8	114.7	0.0
2	1416LINE	RYTN J A	NORWALK	1	256	258.7	301.7	114.9	248.9	291.6	113.9	250.2	293.1	114.5	0.4
2	1890LINE	RYTN J A	NORWALK	1	256	258.7	301.4	114.8	248.9	291.6	113.9	250.2	293.2	114.5	0.3
2	NORWLKHAR1T	RYTN J A	NORWALK	1	256	258.7	301.4	114.8	248.9	291.6	113.9	250.2	293.2	114.5	0.3
3	PEQUON12TSTK	RYTN J A	NORWALK	1	256				237.9	290.5	113.5	238.9	291.7	113.9	
3	1430LINE	RYTN J A	NORWALK	1	256	249.1	299.1	112.9	237.9	289.0	112.9	238.9	290.2	113.3	-0.4
3	1130+1416LNS	RYTN J A	NORWALK	1	256	249.1	295.3	111.6	237.9	284.8	111.3	238.9	285.9	111.7	-0.1
3	SASCOCR1T	RYTN J A	NORWALK	1	256	249.1	295.1	111.4	237.9	284.2	111.0	238.9	285.4	111.5	-0.1
3	GLENBROOK8T	RYTN J A	NORWALK	1	256	249.1	294.3	111.1	237.9	283.9	110.9	238.9	285.0	111.3	-0.2
3	1890LINE	RYTN J A	NORWALK	1	256	249.1	294.4	111.1	237.9	283.5	110.8	238.9	284.7	111.2	-0.1
3	NORWLKHAR1T	RYTN J A	NORWALK	1	256	249.1	294.4	111.1	237.9	283.5	110.8	238.9	284.7	111.2	-0.1
3	1416LINE	RYTN J A	NORWALK	1	256	249.1	293.7	110.9	237.9	282.6	110.4	238.9	283.7	110.8	0.1
2	DARIEN1T	RYTN J A	NORWALK	1	256	258.7	291.0	110.8	248.9	281.8	110.1	250.2	283.3	110.7	0.1
2	SOUTHEND6T	RYTN J A	NORWALK	1	256	258.7	287.9	109.6	248.9	278.7	108.9	250.2	280.2	109.5	0.1
2	1977LINENEW	RYTN J A	NORWALK	1	256	258.7	287.3	109.4	248.9	278.0	108.6	250.2	279.5	109.2	0.2
2	387+AUTOS	RYTN J A	NORWALK	1	256	258.7	285.1	108.8							

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
3	DARIEN1T	RYTN J A	NORWALK	1	256	249.1	283.0	106.9	237.9	272.7	106.5	238.9	273.8	106.9	0.0
3	SOUTHEND6T	RYTN J A	NORWALK	1	256	249.1	279.9	105.7	237.9	269.5	105.3	238.9	270.6	105.7	0.0
2	SOUTHEND5T	RYTN J A	NORWALK	1	256	258.7	278.7	106.1	248.9	269.0	105.1	250.2	270.5	105.6	0.5
3	1977LINENEW	RYTN J A	NORWALK	1	256	249.1	279.2	105.4	237.9	268.9	105.0	238.9	270.0	105.5	-0.1
2	8100-8200DCT	RYTN J A	NORWALK	1	256	258.7	266.1	101.4	248.9	263.5	102.9	250.2	265.0	103.5	-2.1
2	SINGAUT	RYTN J A	NORWALK	1	256	258.7	278.4	105.9	248.9	263.2	102.8	250.2	264.8	103.4	2.5
3	387+AUTOS	RYTN J A	NORWALK	1	256	249.1	273.0	103.2							
2	387LINE	RYTN J A	NORWALK	1	256				248.9	261.0	102.0	250.2	261.1	102.0	
3	SOUTHEND5T	RYTN J A	NORWALK	1	256	249.1	270.6	102.1	237.9	260.0	101.6	238.9	261.1	102.0	0.1
2	DEVON24TSTK	RYTN J A	NORWALK	1	256	258.7	270.1	102.8	248.9	258.8	101.1	250.2	260.2	101.7	1.1
3	387LINE	RYTN J A	NORWALK	1	256				237.9	260.1	101.6	238.9	260.1	101.6	
2	1460-387DCT	RYTN J A	NORWALK	1	256	258.7	285.7	109.0	248.9	259.9	101.5	250.2	260.0	101.5	7.5
3	1460-387DCT	RYTN J A	NORWALK	1	256	249.1	273.5	103.4	237.9	259.2	101.3	238.9	259.2	101.3	2.1
2	1310-1763DCT	RYTN J A	NORWALK	1	256	258.7	267.8	101.9	248.9	257.8	100.7	250.2	259.2	101.3	0.6
2	SCOVK5TSTK	RYTN J A	NORWALK	1	256	258.7	265.5	101.2							
2	1163-1550D-2	RYTN J A	NORWALK	1	256	258.7	265.0	100.8							
2	DEVAUT	RYTN J A	NORWALK	1	256	258.7	265.2	100.8							
2	SOTHNGTN28T	RYTN J A	NORWALK	1	256	258.7	265.0	100.8							
2	SCOVK8TSTK	RYTN J A	NORWALK	1	256				248.9	258.0	100.8	250.2	257.7	100.7	
2	318LINE	RYTN J A	NORWALK	1	256	258.7	264.5	100.7							
2	SGTN3TSTK	RYTN J A	NORWALK	1	256	258.7	264.2	100.7							
2	TRIANGLE4T	RYTN J A	NORWALK	1	256	258.7	264.9	100.7							
2	SGTN4TSTK	RYTN J A	NORWALK	1	256	258.7	263.9	100.6							
3	SINGAUT	RYTN J A	NORWALK	1	256	249.1	267.0	100.6							
2	1505-1607DCT	RYTN J A	NORWALK	1	256	258.7	264.2	100.5							
2	EDEVDEV1	RYTN J A	NORWALK	1	256	258.7	264.2	100.5							
2	MIXAVE1	RYTN J A	NORWALK	1	256	258.7	264.1	100.5							
2	1560-1570DCT	RYTN J A	NORWALK	1	256	258.7	264.8	100.7				250.2	256.7	100.3	0.4
3	SCOVK8TSTK	RYTN J A	NORWALK	1	256				237.9	256.5	100.2	238.9	256.5	100.2	
2	STEVENSNSTK	RYTN J A	NORWALK	1	256	258.7	265.9	101.1				250.2	256.5	100.2	0.9
2	BATESROCK1T	RYTN J A	NORWALK	1	256	258.7	263.4	100.2							
2	TRPFALLST1	RYTN J A	NORWALK	1	256	258.7	263.4	100.2							
2	1770-1887DCT	RYTN J A	NORWALK	1	256	258.7	265.6	101.0				250.2	256.2	100.1	0.9
2	STONYHILL1T	RYTN J A	NORWALK	1	256	258.7	265.6	101.0				250.2	256.2	100.1	0.9
2	GREENHLL2T	RYTN J A	NORWALK	1	256	258.7	263.0	100.1							
2	1800-1810DCT	RYTN J A	NORWALK	1	256	258.7	265.0	100.8				250.2	256.1	100.0	0.8

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	Pre- load	Post- load	% of Rating	
2	SOTHNGTN24T	RYTN J A	NORWALK	1	256	258.7	265.0	100.8				250.2	256.1	100.0	0.8
5	1867-1890DCT	RYTN J A	NWLK HAR	1	274	161.9	407.6	143.4	156.6	394.2	143.9	156.7	394.3	143.9	-0.5
4	1867-1890DCT	RYTN J A	NWLK HAR	1	274	175.0	407.2	143.1	172.4	396.0	144.5	171.6	393.9	143.8	-0.7
2	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1345.8	1813.9	113.1				
5	SGTN4TSTK	SCOV L RK	E.SHORE	1	1604				1316.6	1803.5	112.4				
2	1618-321DCT	SCOV L RK	E.SHORE	1	1604				1345.8	1773.6	110.6				
2	1887-321DCT	SCOV L RK	E.SHORE	1	1604				1345.8	1759.0	109.7				
2	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1345.8	1741.7	108.6				
2	321LINE	SCOV L RK	E.SHORE	1	1604				1345.8	1739.1	108.4				
2	318LINE	SCOV L RK	E.SHORE	1	1604				1345.8	1736.8	108.3				
2	1770-321DCT	SCOV L RK	E.SHORE	1	1604				1345.8	1733.6	108.1				
5	SGTN3TSTK	SCOV L RK	E.SHORE	1	1604				1316.6	1724.1	107.5				
5	318LINE	SCOV L RK	E.SHORE	1	1604				1316.6	1717.8	107.1				
2	LONGMT5TSTK	SCOV L RK	E.SHORE	1	1604				1345.8	1674.0	104.4				
5	1618-321DCT	SCOV L RK	E.SHORE	1	1604				1316.6	1648.0	102.7				
5	1887-321DCT	SCOV L RK	E.SHORE	1	1604				1316.6	1633.3	101.8				
5	321LINE	SCOV L RK	E.SHORE	1	1604				1316.6	1620.9	101.1				
2	1565-PLNRDCT	SCOV L RK	E.SHORE	1	1604				1345.8	1620.1	101.0				
5	1770-321DCT	SCOV L RK	E.SHORE	1	1604				1316.6	1608.4	100.3				
2	SGTN5TSTK	SCOV L RK	E.SHORE	1	1604				1345.8	1607.0	100.2				
5	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				165.1	279.3	110.4	163.0	275.4	108.8	
2	FROSTBR27T	SHAWSHIL	BUNKER H	1	253				163.8	278.9	110.2	161.8	275.1	108.7	
2	1440-1450DCT	SO.END	GLNBRK J	1	289	116.1	365.6	123.2	112.5	356.0	123.2	112.6	356.0	123.2	0.0
3	1440-1450DCT	SO.END	GLNBRK J	1	289	116.3	365.6	123.2	112.8	356.0	123.2	112.8	356.0	123.2	0.0
4	1440-1450DCT	SO.END	GLNBRK J	1	289	112.7	365.6	123.2	109.4	356.0	123.2	109.4	356.0	123.2	0.0
5	1440-1450DCT	SO.END	GLNBRK J	1	289	111.9	365.6	123.2	108.6	356.0	123.2	108.6	356.0	123.2	0.0
5	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				279.0	681.4	116.5	277.1	670.7	114.6	
2	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				279.4	670.7	114.7	277.5	660.3	112.9	
3	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				264.9	618.5	105.7	263.4	610.8	104.4	
4	SGTN5TSTK	SOUTHGTN	SGTN B	2	585				254.1	594.5	101.6	252.9	588.1	100.5	

Dispatch	Contingency	Overloaded Element				Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL			East Shore Alternative (PowerGEM) Cases 22B-25B			East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C			Difference in % Overload Between M-N Cases and East Shore Cases with 387 Recond. *
		From Bus	To Bus	Ckt ID	Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	Pre-load	Post-load	% of Rating	
2	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
3	SOUTHEND6T	WATERSDE	COS COB	1	239	71.5	299.0	124.8	69.5	298.4	124.8	69.5	298.4	124.8	0.0
4	SOUTHEND6T	WATERSDE	COS COB	1	239	71.9	299.0	124.8	69.9	298.4	124.8	69.9	298.4	124.8	0.0
5	SOUTHEND6T	WATERSDE	COS COB	1	239	72.0	299.0	124.8	70.0	298.4	124.8	70.0	298.4	124.8	0.0
2	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.5	360.8	102.5	132.5	360.8	102.5	0.0
3	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	136.7	367.3	102.5	132.4	360.8	102.5	132.4	360.8	102.5	0.0
4	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.2	367.3	102.5	132.9	360.8	102.5	132.9	360.8	102.5	0.0
5	SOUTHEND6T	WATERSDE	GLNBROOK	1	352	137.3	367.3	102.5	133.0	360.8	102.5	133.0	360.8	102.5	0.0
3	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	198.1	291.7	118.0							
3	SCOVK5TSTK	WLNGF PF	WALLFRDJ	1	239	198.1	287.5	116.2							
3	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	198.1	280.4	113.5							
4	387+AUTOS	WLNGF PF	WALLFRDJ	1	239	197.1	274.3	110.8							
4	SCOVK5TSTK	WLNGF PF	WALLFRDJ	1	239	197.1	270.1	109.0							
4	1460-387DCT	WLNGF PF	WALLFRDJ	1	239	197.1	266.6	107.7							

Appendix F2
Voltage Results
New Haven Harbor Off, NY-NE=700

Southwest Connecticut 345-kV Transmission Project - 27,700 MW NE Load Level

Voltage Summary

Comparison of Middletown-Norwalk and East Shore Alternatives

Kleen Energy Dispatched in Place of New Haven Harbor - NY to NE Transfer = 700 MW

Dispatches 2KL, 3KL, 4KL & 5KL (E/PRO) - Dispatches 22, 23, 24 & 25 (PowerGEM)

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL		East Shore Alternative (PowerGEM) Cases 22B-25B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
2	1545-1570DCT	ANSONIA	115	1.005	0.890				
2	DEVON6TSTK	ANSONIA	115	1.005	0.890				
5	1272-1721DCT	BALDWINB	115	1.009	0.872	1.005	0.858	1.006	0.860
2	1272-1721DCT	BALDWINB	115	1.008	0.880	1.006	0.871	1.007	0.873
4	1272-1721DCT	BALDWINB	115	1.011	0.885	1.008	0.885	1.008	0.885
3	1272-1721DCT	BALDWINB	115	1.012	0.885	1.009	0.884	1.009	0.884
5	BUNKERH2T	BALDWINB	115			1.005	0.891	1.006	0.892
5	1272-1721DCT	BCNFL PF	115			0.994	0.888	0.995	0.889
3	BRANFORD4T	BRANFORD	115	1.031	1.053	1.029	1.051	1.029	1.051
4	BRANFORD4T	BRANFORD	115	1.032	1.054	1.032	1.053	1.032	1.053
5	1272-1721DCT	BUNKER H	115	1.019	0.872	1.016	0.858	1.016	0.860
2	1272-1721DCT	BUNKER H	115	1.017	0.881	1.016	0.872	1.017	0.873
4	1272-1721DCT	BUNKER H	115	1.021	0.885	1.017	0.885	1.017	0.885
3	1272-1721DCT	BUNKER H	115	1.021	0.885	1.018	0.884	1.019	0.884
5	BUNKERH2T	BUNKER H	115			1.016	0.893	1.016	0.894
5	PEQUON42TSTK	CONGRESS	115			1.024	0.887	1.024	0.891
5	WRIVER1TSTK	ELMWST A	115	1.024	0.856	1.017	0.876	1.018	0.878
5	GRNDAV7TSTK	ELMWST A	115	1.024	0.857	1.017	0.875	1.018	0.877
5	GRNDAV6TSTK	ELMWST A	115	1.024	0.862	1.017	0.873	1.018	0.882
2	WRIVER1TSTK	ELMWST A	115	1.026	0.872	1.022	0.881	1.023	0.883
2	GRNDAV7TSTK	ELMWST A	115	1.026	0.873	1.022	0.881	1.023	0.883
2	GRNDAV6TSTK	ELMWST A	115	1.026	0.881	1.022	0.884	1.023	0.886
3	WRIVER1TSTK	ELMWST A	115	1.031	0.883				
3	GRNDAV7TSTK	ELMWST A	115	1.031	0.884				
4	WRIVER1TSTK	ELMWST A	115	1.032	0.886				

Dispatch	Contingency	Bus		Middletown-Norwalk 09/15/03 Cases (E/PRO) ph2-alt2-ny-ne-091503-xKL		East Shore Alternative (PowerGEM) Cases 22B-25B		East Shore Alternative w/Reconducted 387 Line (PowerGEM) Cases 22C-25C	
		Name	Base Voltage	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)	Pre-Cont. Voltage (pu)	Post-Cont. Voltage (pu)
4	GRNDAV7TSTK	ELMWST A	115	1.032	0.887				
3	GRNDAV6TSTK	ELMWST A	115	1.031	0.887				
4	GRNDAV6TSTK	ELMWST A	115	1.032	0.890				
5	WRIVER2TSTK	ELMWST B	115	1.024	0.847	1.017	0.873	1.018	0.875
5	GRNDAV4TSTK	ELMWST B	115	1.024	0.848	1.017	0.873	1.018	0.875
5	GRNDAV5TSTK	ELMWST B	115	1.024	0.858	1.017	0.870	1.018	0.880
2	WRIVER2TSTK	ELMWST B	115	1.026	0.869	1.022	0.879	1.023	0.881
2	GRNDAV4TSTK	ELMWST B	115	1.026	0.870	1.022	0.879	1.023	0.881
2	GRNDAV5TSTK	ELMWST B	115	1.026	0.873	1.022	0.882	1.023	0.884
3	WRIVER2TSTK	ELMWST B	115	1.031	0.875				
3	GRNDAV4TSTK	ELMWST B	115	1.031	0.881				
4	WRIVER2TSTK	ELMWST B	115	1.032	0.883				
4	GRNDAV4TSTK	ELMWST B	115	1.032	0.884				
3	GRNDAV5TSTK	ELMWST B	115	1.031	0.885				
4	GRNDAV5TSTK	ELMWST B	115	1.032	0.887				
5	1272-1721DCT	FREIGHT	115	1.020	0.870	1.017	0.857	1.018	0.859
2	1272-1721DCT	FREIGHT	115	1.019	0.879	1.018	0.870	1.018	0.871
4	1272-1721DCT	FREIGHT	115	1.023	0.884	1.019	0.883	1.019	0.883
3	1272-1721DCT	FREIGHT	115	1.023	0.884	1.020	0.883	1.020	0.883
2	1545-1570DCT	IND.WELL	115	1.005	0.880				
2	DEVON6TSTK	IND.WELL	115	1.005	0.880				
5	1545-1570DCT	IND.WELL	115	1.005	0.899				
5	DEVON6TSTK	IND.WELL	115	1.005	0.899				
4	NOHAVN2TSTK	NO.HAVEN	115			1.041	1.051	1.042	1.051
5	1272-1721DCT	SO.NAUG	115			1.005	0.889	1.006	0.890