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STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

RECEIVED
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CONNECTICUT
SITING COUNCIL

IN RE:

APPLICATION OF DOMINION NUCLEAR
CONNECTICUT, INC. TO MODIFY SITING
COUNCIL CERTIFICATE (DOCKET NO. 265)
FOR THE EXISTING INDEPENDENT SPENT
FUEL STORAGE INSTALLATION (DRY
STORAGE SYSTEM) AT MILLSTONE
POWER STATION, ROPE FERRY ROAD,
WATERFORD, CONNECTICUT

DOCKET NO. 265A

NOVEMBER 15, 2012

NOTIFICATION PURSUANT TO C.G.S. § 16-50(e)

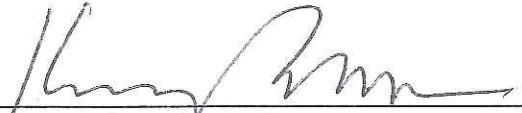
Pursuant to Connecticut General Statutes § 16-50(e), attached are the materials which Dominion Nuclear Connecticut, Inc. ("DNC") is required to provide to the Siting Council ("Council") in conjunction with its current proposal to modify the existing independent spent fuel storage installation ("ISFSI") at the Millstone Power Station ("Millstone"), Waterford, Connecticut. This submission includes:

- A. A summary of consultations with Town of Waterford and Town of East Lyme officials;
- B. Copies of all materials provided to the Town of Waterford and the Town of East Lyme; and
- C. Copies of comments and recommendations issued by the Towns of Waterford and East Lyme.

3. No comments or recommendations were received from the Town of East Lyme.

Respectfully submitted,

DOMINION NUCLEAR CONNECTICUT,
INC.

By 

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
Its Attorneys

ATTACHMENT 1

Dominion Resources Services, Inc.
Rope Ferry Road, Waterford, CT 06385

Web Address: www.dom.com



July 31, 2012

ATTACHMENT 1

Alan H. Maris
44 Windward Way
Waterford, CT 06385

Re: **Dominion Nuclear Connecticut, Inc. Proposal to Modify the Existing Independent Spent Fuel Storage Installation at Millstone Power Station, Rope Ferry Road, Waterford, Connecticut**

Dear Mr. Maris:

We at Dominion know how important it is to keep our neighbors informed on issues impacting Millstone Power Station. Nine years ago, my predecessor, Dan Weekley, contacted you about Dominion's plans to establish an Independent Spent Fuel Storage Installation ("ISFSI") at Millstone. That facility has now been partially constructed and has been used for storing spent fuel from Millstone Unit 2 since 2005.

Dominion is preparing to file an application with the Connecticut Siting Council ("Council") for certain modifications to the existing ISFSI. The modifications will include changes to existing storm water drainage structures, the widening of the area adjacent to the concrete loading apron, the installation of the concrete pad to support 135 horizontal storage modules ("HSMs") and the ability to construct the 135 HSMs as needed. (The existing Council approval limits the number of HSMs Dominion can install now to 49).

On June 27, 2012, Dominion met with officials in both the Towns of Waterford and East Lyme to discuss the planned ISFSI modifications. Technical information regarding this proposal was delivered to officials in Waterford and East Lyme.

In an effort to provide you with more information on this important topic, the Towns of Waterford and East Lyme will be hosting a Public Information Meeting to discuss the ISFSI modification proposal. Dominion will make a formal presentation describing the ISFSI modifications at that time and be available to answer questions. **The Public Information Meeting will be held on Wednesday, August 15, 2012 at 7:00 PM in Waterford Town Hall.**

If you have any questions concerning the ISFSI modification proposal, the Public Information Meeting, or if you would like to see a copy of the technical information, please contact me. I can be reached at 860-444-5656.

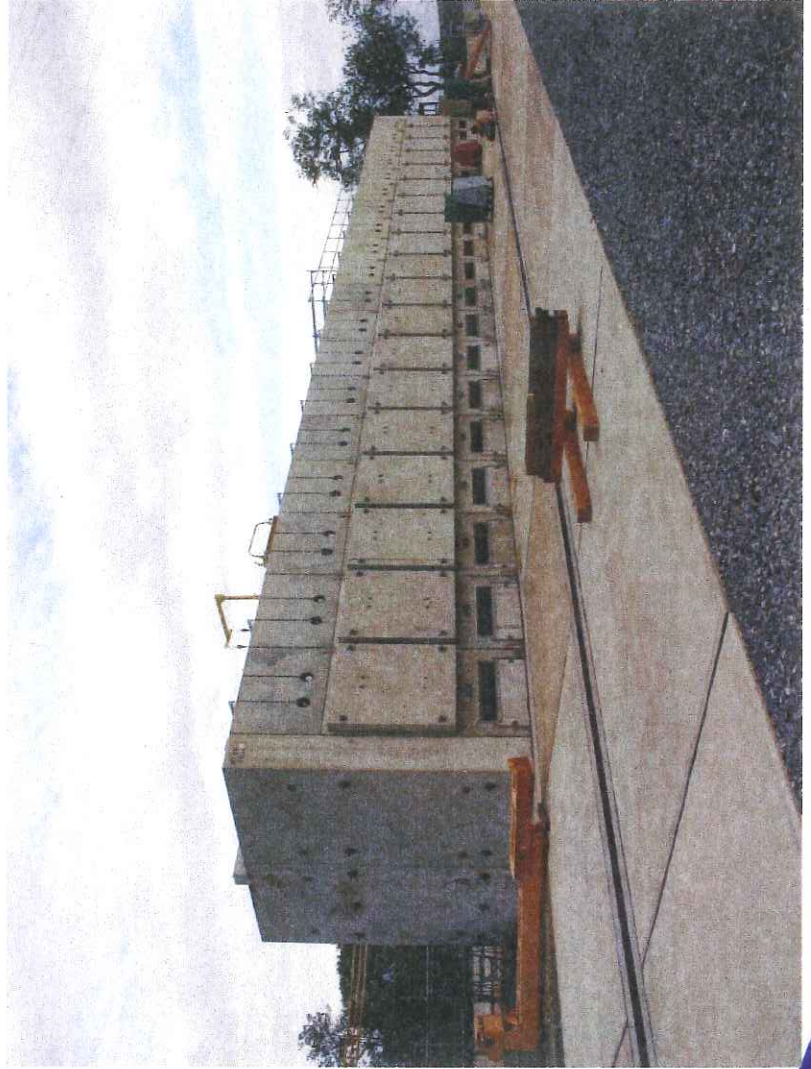
Very truly yours,

Kevin R. Hennessy
Director – Federal, State and Local Affairs – New
England

ATTACHMENT 2



Dry Fuel Storage at Millstone





Presenters

**Kevin Hennessy – Director, Northeast Government
Affairs**

Brian Wakeman – Lead Engineer Dry Storage

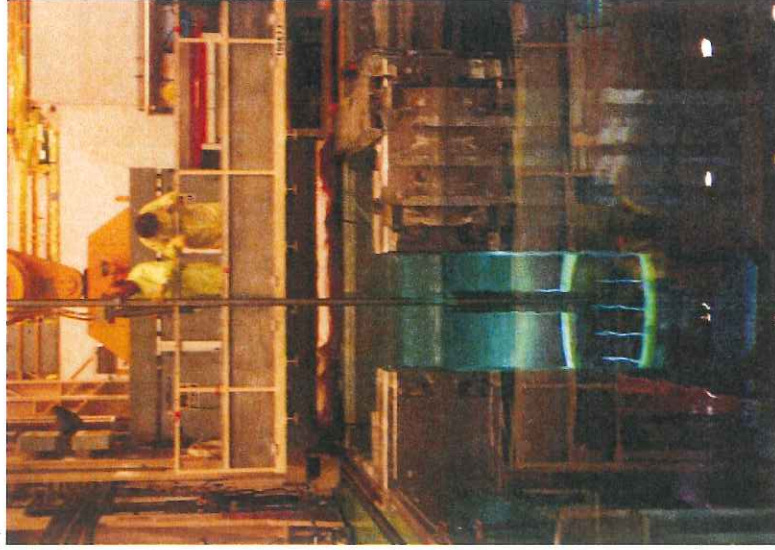
David Dakers – Project Manager

Forrest Kocon – Site Services

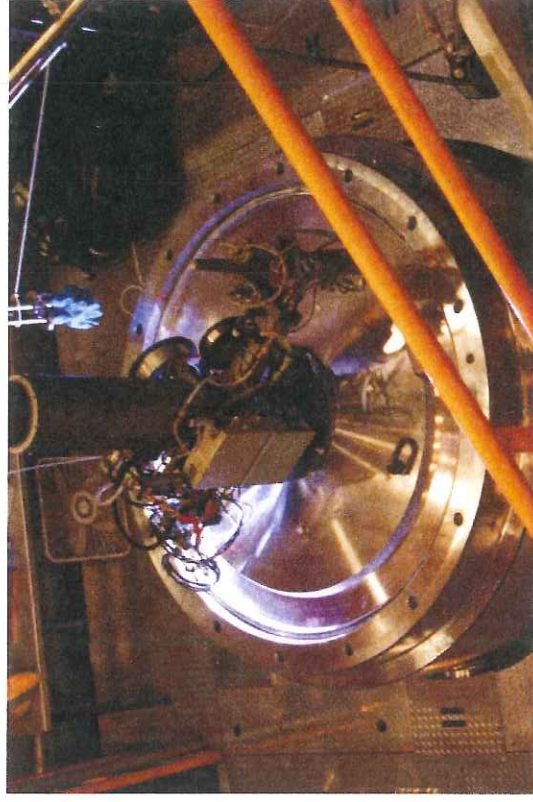


Dominion

Steps to Complete Dry Storage



Spent fuel is loaded into Dry
Shielded Canister (DSC)
under water



DSC cover is placed and welded



Steps to Complete Dry Storage

Cask
containing
DSC is
Lowered
onto
transporter



DSC is Inserted into Horizontal
Storage Module (HSM)



Dominion

Steps to Complete Dry Storage



DSC Installed in HSM



HSM Cover is Installed and Secured

Background

In 2004 the Siting Council Approved construction of the Millstone Independent Spent Fuel Storage Installation (ISFSI) including:

- **Subsurface work for 135 Horizontal Storage Modules (HSMs)**
- **Infrastructure work (Drainage, Grading, Roadway, Underground Utilities and Security Fence) for 135 HSMs**
- **Installation of a concrete pad and aprons to accommodate up to 49 HSMs**



Construction Completed to Date

- **Subsurface work for 135 HSMS**
- **Infrastructure work (Drainage, Grading, Roadway, Underground Utilities and Security Fence) for 135 HSMS**
- **Installation of a concrete pad and loading aprons for 20 HSMS**
- **Assembly and placement of 19 HSMS on the concrete pad**



Existing Facility



Status of Spent Fuel Movement

- **Presently 18 of the 19 installed HSMs have been loaded with spent fuel**
- **The 19th HSM remains unloaded until additional HSMs are placed**



What is Proposed

- **Leveling of the grade adjacent to the loading aprons**
- **Completion of the concrete pad and loading apron for 135 HSMS**
- **HSMS up to 135 would be added only as required to support offload of fuel from the spent fuel pools**
- **Modifications to the existing and proposed storm water system**
- **Temporary relocation of the existing Protected Area fence to accommodate construction activities**



ISFSI Layout Plan



On-Site HSM Fabrication

- **The existing HSMs were fabricated at a facility in Virginia and transported to Millstone**
- **Dominion is pursuing plans for on-site fabrication of HSMs, requiring 2.5 acre open area**
- **Potential location is northeast parking lot**



No Significant Adverse Environmental Effects

- **Minor excavation to widen area adjacent to loading apron**
- **Initial facility subgrade and infrastructure was constructed with the provisions to accommodate up to 135 HSMs**
- **Drainage modifications will result in negligible increases in flow and no changes to discharge structure are required**



Tentative Schedule

- **Construction planned for 2013**
- **Additional HSMs are planned to be placed in the expanded facility in 2014**
- **Next transfer of spent fuel from the spent fuel pools is planned for 2015**
- **Need for additional HSMs beyond the 135 may need to be re-evaluated in 2030 timeframe**



Siting Council Certificate Modification Process

- **DNC intends to file a certificate modification application with the Siting Council**
- **Municipal Officials have been provided with technical information in accordance with Siting Council procedure**
- **The Municipal authorities after review of this information and this public meeting may issue comments and recommendations to the Siting Council**

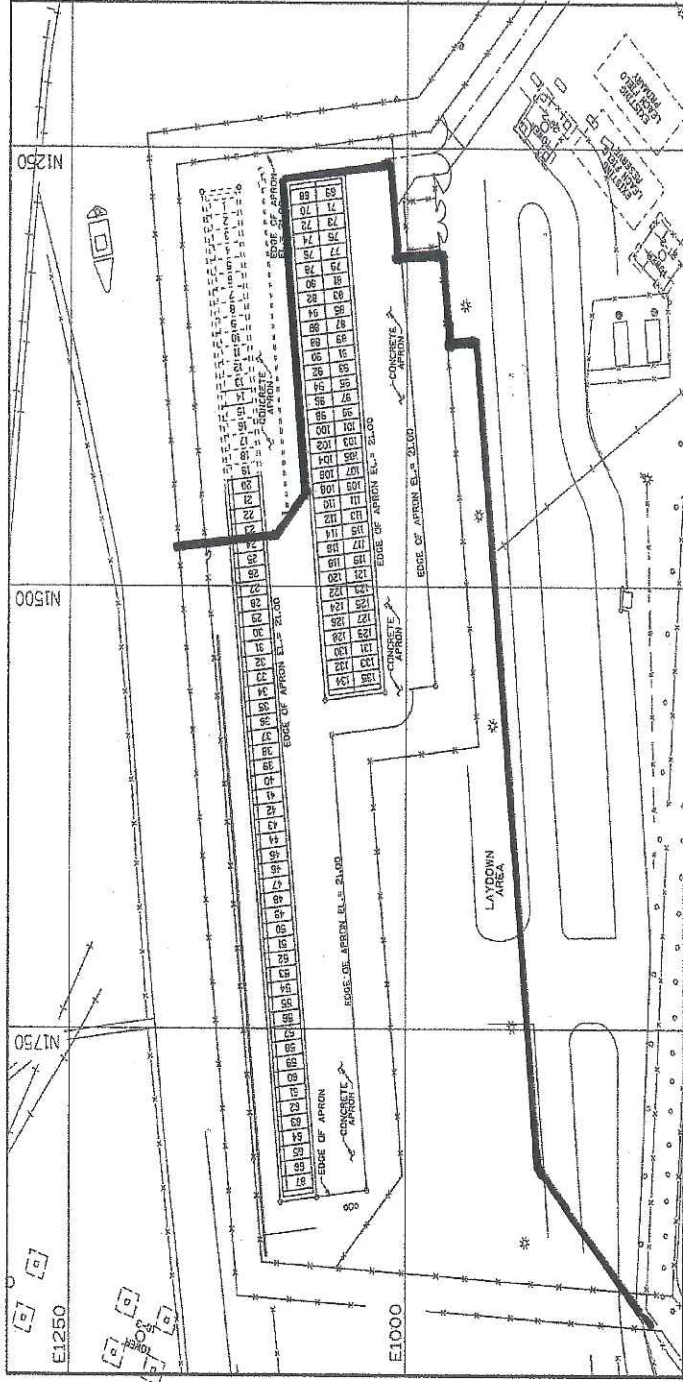


QUESTIONS?



Dominion

Proposed Relocation of Protected Area Fence



ATTACHMENT 3

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

August 28, 2012

Stephen E. Scace
Site Vice President – Millstone
Dominion Nuclear Connecticut, Inc.
Millstone Power Station
314 Rope Ferry Road
Waterford, CT 06385

RE: DOMINION-MILLSTONE STATION INDEPENDENT SPENT FUEL
STORAGE INSTALLATION- CGS 16-50x(d) –TECHNICAL REVIEW

Dear Sir:

On August 27, 2012 the Waterford Planning and Zoning Commission reviewed the project referenced above and it was the consensus of the Commission to forward these comments to you for Dominion Nuclear of Connecticut, Inc's consideration as you proceed to make application to the Connecticut Siting Council (CSC).

The Planning and Zoning Commission's initial position on the ISFSI was contained in an Order of 8/18/2003. This Order was modified by the Conditions and Order contained in Docket 265 issued 5/27/2004 by the Connecticut Siting Council.

The Planning and Zoning Commission recommends that the CSC:

1. Continue the conditions set forth in Docket 265 subject to acceptance of the revised installation schedule as proposed not to exceed 135 Horizontal Storage Modules and that the CSC reaffirm the temporary nature of the storage installation.
2. That the purpose remain to provide "Full Core Reactor Off Load" for Units 2 & 3.
3. That the CSC continue to retain the right to require a review on a 5 year basis of the need to continue the temporary storage specifically relating to permanent removal of the material off site.
4. That the Commission appreciates the potential safety benefits of removal of Unit 1 Spent Fuel, but in doing so request the opportunity to participate in a more comprehensive review of the future of Unit 1 and reuse of the site in a manner consistent with the Zoning Regulations.
5. That the preliminary proposal for a manufacturing facility, subject to a more detailed submission is not inconsistent with the Commissions Management Guidelines for the site.

Thank you for this opportunity to comment at this stage in the process. The Commission intends to participate in the review of the formal application submitted to the CSC. If you should require additional information or have any questions please do not hesitate to

Stephen E. Scace
Dominion Nuclear Connecticut, Inc.
August 28, 2012
Page 2

contact me at 860-444-5813. Lastly, the recent public meeting held for residents of Waterford and East Lyme was very well done and resulted in a considerable level of public participation and interaction with representatives of Dominion Nuclear of Connecticut Inc.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas V. Wagner". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Thomas V. Wagner, AICP

Planning Director

Cc: Planning and Zoning Commission
Daniel M. Steward, First Selectman
Kevin R. Hennessy, DNC
J. David Dakers, DNC
Ken Baldwin, Esq, Robinson and Cole ✓

ATTACHMENT 4

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

August 29, 2012

Kevin Hennessy
 Director: Federal, State & Local Affairs
 Millstone Power Station
 P O Box 128
 Rope Ferry Road
 Waterford, CT 06385

**Re: Proposed Modifications to the ISFSI – Millstone Power Station
 Findings from the Waterford Conservation Commission based upon
 Review of the Pre-Application Technical Information**

Dear Mr. Hennessy:

The Waterford Conservation Commission has reviewed the Technical Information submitted to the Town of Waterford First Selectman (received July 27 2012) concerning an application to the Connecticut Siting Council to modify the existing independent spent fuels storage installation at Millstone Power Station. Members of the Commission also attended the public information meeting conducted August 15, 2012.

The Conservation Commission endorsed the following findings at their August 23, 2012 meeting.

- The proposed modifications do not involve activities within wetlands or the 100 ft. Upland Review Area.
- The proposed expansion of the concrete pad to support the maximum 135 HSMs authorized by the Siting Council occurs within the previously approved limits of the ISFSI.
- The proposed addition of catch basins and storm drain piping and the discontinuance of the trench drain does not alter the peak discharge to the receiving wetlands by more than 1 cfs. The site was previously a parking area. The facility footprint, base materials and drainage infrastructure for the ISFSI were approved by the Siting Council and in large part constructed in Phase I of the site development.
- The proposed expansion of the pad to the northwest of the existing facility involves an approximate 25 ft wide excavation along this edge of the pad and increases the area of disturbance by 0.23 acres. This area is proposed to support a 15 ft wide paved apron. The cut slopes are proposed at 2:1 and armored with rip-rap. The alteration is proposed to accommodate turning movements of the transporter machinery.

- The erosion and sediment control plan states that catch basin inlets will be protected during excavation work to prevent discharge of sediment into the stormwater system.
- According to the March 30, 2012 GZA update report, the proposed revisions will not increase peak outflow from the ISFSI to the receiving wetlands and will not result in significant adverse environmental impacts. The update states that the revisions do not alter the conclusions of the 2003 Environmental Site Assessment and Wetland Reports.

Please do not hesitate to contact me at 860 444-5813 if you have any questions regarding this matter.

Sincerely,



Maureen FitzGerald
Environmental Planner

cc: Thomas Wagner, Planning Director
Daniel Steward, First Selectman