

STATE OF CONNECTICUT



THE NUCLEAR ENERGY ADVISORY COUNCIL REPORT

2014

Established Pursuant to Public Act 96-245

**John W. Sheehan, Chairperson
Pearl Rathbun, Vice Chairperson**

December 11, 2014

TABLE OF CONTENTS

2014 Nuclear Energy Advisory Council (NEAC) Report	Page
Charge to the Council.....	1
Council Members.....	1
Executive Summary.....	2
Council Activities in 2014.....	3
Report on Issues.....	3
Millstone Operations.....	3
Decommissioning.....	5
Millstone 1.....	5
Connecticut Yankee.....	5
High Level Nuclear Waste.....	7
Recommendations.....	8
State.....	8
NEAC.....	9
Appendix 1 – 2014 Nuclear Energy Advisory Council Membership	
Appendix 2 - 2014 NEAC Meeting Minutes	
Appendix 3 – Letter to Stephen Scace, Site Vice President, Millstone Power Station and Response from Mr. Scace	

CHARGE TO THE COUNCIL

Section 17 of Public Act 96-245(now CGS16-11a as amended) created the Nuclear Energy Advisory Council (NEAC) and requires it to:

1. Hold regular public meetings to discuss issues relating to the safety and operations of nuclear power plants and to advise the governor, legislature, and municipalities within a five-mile radius of the plants on these issues;
2. Work with federal, state, and local agencies and the companies operating such plants to ensure public health and safety;
3. Discuss proposed changes in, or problems arising from, the operation of the plants;
4. Communicate, through reports and presentations, with the plants' operators about safety or operational concerns at the plants, and
5. Review the current status of the plants with the Nuclear Regulatory Commission.

COUNCIL MEMBERS

The Council consisted of twelve (12) members appointed by the Governor, legislative leadership, and the executive bodies in the towns in or near which the state's nuclear power plants are located (Appendix 1).

EXECUTIVE SUMMARY

This is the nineteenth annual report presented by the Nuclear Energy Advisory Council (NEAC). During calendar year (CY) 2014, the NEAC met three times and received reports from representatives of the Nuclear Regulatory Commission (NRC), and Dominion Nuclear Connecticut as well as a written status report from Connecticut Yankee Independent Spent Fuel Storage Installation (ISFSI). Routine NRC Millstone Power Station (MPS) inspection and performance assessment reports were also received and reviewed. During the fourth quarter of 2013, Millstone Unit 2 and 3 plant performance (Action Matrix) was classified as "GREEN", meaning that all inspection findings for CY 2013 were classified as having no or low safety significance. This meant that Unit 2 and Unit 3 would have baseline inspections in 2014. In the first quarter of 2014 one NRC-identified finding of very low safety significance (GREEN) was reported during the integrated inspections of Millstone 2 and Millstone 3. The finding was attributed to Millstone 3. Both Millstone 2 and 3 remained in the GREEN classification. During the second quarter, there were two NRC-identified findings of very low safety significance and one finding of very low safety significance identified by the licensee. In the third quarter there were no findings identified during the integrated inspections of Millstone 2 and 3. Results for the fourth quarter 2014 were not available at the time of this report. Because of the "GREEN" status, only routine baseline inspections were scheduled by the NRC of Millstone 2 and 3 in CY 2014. Included in those baseline inspections were a Millstone Station Security Baseline Inspection. However, unscheduled events at Millstone Station engendered a number of special inspections. The two most significant were a Special Inspection concerning the operation of the Turbine Driven Auxiliary Feed Water Pump and another concerning the loss of all Site Power causing a dual reactor trip. These inspections generated one Severity Level III finding, one WHITE finding and two Green findings. During its briefing by Dominion, the NEAC expressed great concern regarding the downward performance trend. A formal response was requested from the Site Vice-President in a letter sent to Dominion in October 2014.

Scheduled decommissioning activities of the industrial areas at Connecticut Yankee Atomic Power Company (CYAPCO) are complete. The Connecticut Yankee Site with the exception of the Spent Fuel Dry Cask Storage Area was released for unrestricted use on November 26, 2007. Final decommissioning and license termination of the entire site will be completed after removal of spent nuclear fuel (SNF) and greater than Class C (GTCC) radioactive waste that is in dry cask storage. The Connecticut Department of Energy and Environmental Protection (DEEP) terminated radiological environmental monitoring and groundwater monitoring programs and all sampling wells were decommissioned by April 8, 2014. The NRC conducts biennial safety/security inspections of the Independent Spent Fuel Storage Installation (ISFSI).

COUNCIL ACTIVITIES IN 2014

MEETINGS:

As required by PA 96-245, the NEAC held three public meetings as follows: (1) March 31, 2014, (2) September 17, 2014, and (3) December 11, 2014 at Waterford Town Hall, Waterford, CT;. The purpose of these meetings was to provide a venue for discussion of issues relating to the safe operation of the state's nuclear power plants. Meeting minutes are included in Appendix 2. A summary of the meetings follows:

March 31, 2014: This was a joint meeting with the NRC Region I staff and focused on the Annual Assessment Report of Millstone Power Station Units 2 and 3 for the four quarters of CY2013. It was reported that overall these two units were operated in a manner that preserved public health and safety and Unit 3 fully met NRC cornerstone objectives. Both Unit 2 and Unit 3 would have baseline inspections.

September 17, 2014: Dominion Nuclear Connecticut representatives provided an update of activities at Millstone Power Station. Responses to questions from members of NEAC left some questions unanswered. Recent Millstone Station inspection results and correspondence received from the NRC was also discussed. NEAC Chairman sent a letter to the Site Vice President requesting a response (See Appendix 3 for the letter and the Site Vice President response).

December 11, 2014: The CY2014 Annual Report was discussed, reviewed, and approved for promulgation. NRC Correspondence and Inspection Results received since the last meeting were discussed. The meeting schedule for CY2015 was approved and possible topics for the meetings were discussed.

Millstone 1 Decommissioning Advisory Committee (M1DAC): Since Millstone 1 remains in Safe Storage (SAFSTORE) and no significant activities were conducted at the Unit during the past calendar year, M1DAC did not meet in CY2014.

REPORT ON ISSUES

MILLSTONE OPERATIONS

As reported by the Nuclear Regulatory Commission (NRC) in regular inspection reports and at a Joint Public Meeting (Appendix 2), Millstone Units 2 and 3 have continued to be operated in a manner that preserves public health and safety. There have been some recent events that point to a relaxation of high standards at Millstone Power Station. On October 20, 2014 the NRC officially notified Dominion Nuclear Connecticut that Millstone Unit 3 was in the Regulatory Response column of the NRC Action Matrix and that a Supplemental Inspection will be conducted when the licensee notifies the NRC it is ready for this inspection.

Routine inspections conducted between October 1, 2013 and September 30, 2014 resulted in the identification of three Unit 2 issues, four Unit 3 issues, and one Site issue. All were determined to be of very low safety significance (GREEN). An NRC Security Baseline Inspection for CY2013 was reported on February 12, 2014. Observations and findings were not released to the public. On December 31, 2013 the NRC staff completed the annual inspection of the Emergency Preparedness Program and the Security Program at Millstone Power Station that commenced on January 1, 2013. No observations and findings were provided in the February 12, 2014 letter that closed out the inspections. One NRC-identified GREEN finding was noted in the Baseline Security Inspection completed on May 28, 2014 and reported in a letter dated June 24, 2014. The specific violation was not noted in the letter due to plant security. The reporting letter did state that a Notice of Violation (NOV) was issued "...because of Millstone's failure on two previous occasions to identify this issue and to require a response from Millstone..." No findings were identified in the July 31, 2014 Problem Identification and Resolution Inspection reported in a letter dated September 12, 2014. No "findings or violations with more than minor significance..." were found in the Material Control and Accounting Program Inspection completed on September 17, 2014 and reported in a letter dated October 22, 2014. This same finding was also noted for the Emergency Preparedness Exercise (Hostile Action Scenario) conducted on September 12, 2014 and reported on a letter dated October 22, 2014. The results of two Special Inspections by the NRC resulted in a Severity Level II finding from an inspection completed on July 15, 2014 as a result of the Loss of all Site Power that occurred on May 25, 2014 and reported on August 28, 2014 and a WHITE Finding from the inspection completed on July 21, 2014 that was conducted as a result of over-speed trips of the MPS3 Turbine Driven Auxiliary Feed Water (TDAFW) Pump that occurred on November 4, 2013, December 18, 2013 and January 23, 2014 and reported in correspondence dated August 28, 2014. On September 15, 2014 THE DAY of New London reported a second Special Inspection was in progress relating to the MPS3 TDAFW Pump due to test failures on July 15, 2014 and September 10, 2014. Reports of that inspection have not yet been released. The NRC had not released the results of the other fourth quarter 2014 inspections at the close out time of this report.

In a letter dated April 18, 2014 the NRC approved an amendment to the Renewed Facility Operating License for the Millstone Power Station (MPS) Unit 2 changing the "Ultimate Heat Sink" maximum temperature from 75 degrees F to 80 degrees F. Another letter dated July 11, 2014 approved the same change for MPS Unit 3.

Throughout 2014 the NRC and Dominion made a number of changes as a result of analyses of the Fukushima Dai-Ichai Accident. Studies were conducted related to the flooding potential from various sources and potential for seismic activity and the impact on the Millstone Power Station. As a result of these studies, Dominion moved its Emergency Operating Center (EOC) from the plant site in Waterford to a facility Dominion constructed in the Norwich Industrial Park near the Dodd Baseball Stadium. This facility went on line in late November 2014. Dominion also constructed a special "Dome" structure in a parking lot at the power station that would store large emergency equipment that might be required in the event of a major flooding or seismic event. The

NRC has established three remote storage sites that will hold emergency equipment that may be airlifted to a damaged nuclear power plant. A landing site for this equipment has been outlined by Dominion near its new EOC.

DECOMMISSIONING

MILLSTONE 1

In July of 1998, it was announced that Millstone Unit 1 would undergo decommissioning. A modified Safe Storage (SAFSTOR) decommissioning option was selected and remains in effect. This involved some decontamination and dismantlement early in the process. After these initial activities were completed, the unit was then placed in safe storage until the other two units at the Millstone site undergo decommissioning. After reviewing Unit 1 requirements, in conjunction with the operational and outage requirements of Millstone Units 2 and 3, it was strategically decided to place Unit 1 in 'Cold and Dark' storage in April 2001. This allowed the safe and efficient separation (from Units 2 and 3) projects as well as the decommissioning projects. All separation projects were completed by April 1, 2001.

The annual inspection of Millstone 1 operations was conducted between June 16 and October 27, 2014. There were "No findings of safety significance" according to the NRC reporting letter dated November 13, 2014.

CONNECTICUT YANKEE

The Connecticut Yankee Atomic Power Company (CYAPCO) plant began commercial operation in 1968 and produced more than 110 billion kilowatt-hours of electricity during its 28-year operating history. In 1996, the CYAPCO Board of Directors voted to permanently close and decommission the power plant. After two years of planning and preparation, actual decommissioning began in 1998 and was completed in 2007. CYAPCO has operated the NRC licensed Independent Spent Fuel Storage Installation (ISFSI) at the Haddam Neck site since 2004. The spent nuclear fuel and GTCC waste at the ISFSI facility is stored in 43 dry casks containing dual purpose canisters licensed by the NRC for both storage and transportation. The generic storage license for the dry cask storage system expires in 2020. CYAPCO plans to submit a license renewal request by 2018 extending the license for another 40 years. The U.S. Department of Energy is obligated under the Nuclear Waste Policy Act and by contract with CYAPCO to remove and dispose of this waste.

Current Status

CY ISFSI operations continued to be normal in 2014.

A biennial NRC site inspection occurred in April. Two issues were identified regarding how vehicle searches were conducted and how vehicle escorts were performed. Both issues were immediately addressed during the inspection and were classified as minor violations that would not be included in the inspection report.

Phase II of the Pad Repair project was completed in June. The repair consisted of chipping out loose material in the North and South aisles and then patching. Planning has started for the next round of pad repair in 2015.

Dry cask inspections were completed in September with no new issues identified.

The installation of the new mechanized North Gate, including intercom and camera coverage, is complete and is now in operation. Vehicular trespassing on the site access road, which used to occur frequently, has ceased.

Work on the modified Vehicle Barrier System (VBS) is complete. A new active barrier has been installed outside the Protected Area. CY's procedure set has been updated to account for the modified VBS, all personnel have been trained on its use, and it is fully operational. This modification improves site logistics, simplifies and enhances how vehicle searches are conducted, and reduces CY's reliance on natural terrain for blocking vehicle access.

An independent contractor conducted a cyber security assessment in July and found no issues. A final report was issued in November.

A forestry assessment is underway to determine the steps that can be taken to responsibly manage the substantial site resources. The report will evaluate a timber harvest in addition to other conservation measures and is due to be completed in November.

The biennial Emergency Plan Drill was conducted in November 2013. Good participation was provided by the Connecticut State Police Emergency Services Unit (ESU) who deployed explosive sniffing dogs and mobile radiation detection equipment as part of the Drill scenario. The FBI and National Guard were also on site to observe.

Formal approval was received from the CT DEEP to terminate the CY Groundwater Monitoring Program on February 25, 2014. All wells have been decommissioned and the Well Decommissioning Report was approved by the DEEP. In July, CY received written approval from the CT DEEP of the CY Corrective Action Completion Report. That report documented completion of the federal Resource Conservation and Recovery Act (RCRA) Corrective Action Program, that the environmental conditions at the Haddam Neck site were in compliance with the DEEP Radioactive Substance Regulations (RSRs), and that the requirements of the CY Stewardship Permit had been satisfied. Following a 45 day public comment period and an August 25th Public Meeting, the CT DEEP issued a final administrative determination on September 19th that the CY Stewardship Permit could be terminated. A formal letter terminating the Stewardship Permit from the DEEP is pending.

At the request of DEEP Commissioner Klee, CY and DEEP are jointly evaluating alternate location options and potential alternative security and visibility mitigation measures for the boom that was re-installed in 2013 at the entrance of the CY discharge

canal. The boom is regarded by some as visually unattractive and members of the public have raised concerns that it prevents individuals from utilizing the canal for recreational purposes. CY reinstalled the canal boom utilizing the historical boom moorings located at the entrance of the discharge canal that was created by CY and used during plant operation. The canal boom was originally installed in the 1960's and remained in place until the completion of nuclear plant decommissioning approximately 40 years later. The re-installed boom permit was approved by the State of Connecticut in compliance with applicable Connecticut DEEP regulations. The boom was reinstalled as one of several site security related access control measures that are being initiated to enhance the site's security protective strategy (such as the mechanized North Gate). These security measures are designed to better provide for the safety of the general public, CY's employees, and local law enforcement responders in ensuring the safe storage of the spent nuclear fuel at the site pending its removal by the federal government. Because of the security related considerations involved, in addition to the DEEP, the evaluation effort includes the involvement of the CT State Police and the U.S. Department of Homeland Security. The outcome of this evaluation will determine if there are potential options that can be pursued.

At the request of the NRC, the National Academy of Sciences completed Phase 1 of a proposed 2-part study on the cancer risk posed by nuclear power facilities. NRC accepted the NAS March 2012 Phase 1 recommendation that a pilot study of six nuclear power plants (including CY) and a fuel cycle facility be conducted prior to proceeding with the second phase study. In October, the National Academy of Sciences published a Frequently Asked Questions (FAQs) about the NAS Cancer Study and a Request for Information (RFI) that solicited quotations for contracted research to support the Study (responses are due 11/24/14). In parallel to the RFI effort, the NAS Cancer Study advisory committee will submit its report to the NAS in mid-December 2014 providing advice on how to proceed with the Pilot Study in consideration of the limitations and challenges involved. The NAS staff expects to submit a proposal for conducting the Pilot Study to the NRC by the end of December 2014 which will include the scope, budget and schedule for the pilot based on the RFI responses.

A CY Fuel Storage Advisory Committee meeting was held in Haddam, CT on May 20, 2014.

HIGH LEVEL NUCLEAR WASTE

- NEAC continued to monitor activity to establish a permanent solution for spent nuclear fuel disposal. In view of the fact that there are now two nuclear plants currently decommissioned in Connecticut, failure to establish a permanent repository or otherwise dispose of the spent nuclear fuel and high level waste could adversely affect the State's economy and homeland security. It is noted that temporary storage of spent fuel in dry cask storage containers has been implemented at both Millstone and Connecticut Yankee.

The President's Blue Ribbon Committee Report was submitted to the Secretary of Energy on January 26, 2012 with eight key recommendations to reform the spent nuclear fuel management program. Some of these recommendations will require legislation by Congress and approval by the President. NEAC will continue to monitor the progress toward a solution to the problem of High Level Nuclear Waste.

According to information from the Yankee Power Companies the three Yankee Companies filed a Phase III round of damages claims in the U. S. Court of Federal Claims for the years 2009-2012 in August 2013. It appears that the company must file suit every five to six years to get the government to pay for past costs of the ISFSI and the fuel modules due to an earlier U. S. Federal Appeals Court decision that the companies may not receive damage awards for costs that have not yet been incurred.

According to information provided by the Yankee Power Companies, the NRC is continuing to undertake the safety evaluation report on the Department of Energy submission regarding the Yucca Mountain nuclear waste depository. This direction is a result of an August 2013 decision by the U. S. Court of Appeals for the District of Columbia ordering the NRC to continue the evaluation until currently appropriated funds are exhausted. One of the five Safety Evaluation Reports is completed and the remaining reports are expected to be complete in January of 2015. There is uncertainty whether the next Congress will appropriate the funding necessary to complete the license application review process.

RECOMMENDATIONS

STATE

- 1.** Department of Energy and Environmental Protection should continue to address any emergency preparedness issues at Connecticut's nuclear sites.
- 2.** Department of Energy and Environmental Protection should continue to address any security issues at Connecticut's nuclear sites.
- 3.** Department of Energy and Environmental Protection should continue radiological and environmental monitoring of Connecticut's nuclear sites.
- 4.** The Governor, General Assembly, Department of Energy and Environmental Protection, and NEAC should continue to insist that the NRC continue vigilant oversight of Connecticut Yankee and Millstone Power Station sites for as long as high-level nuclear waste remains on site.
- 5.** The Governor, General Assembly, and DEEP should encourage the federal government to develop a solution to the spent fuel storage problem and urge the federal Executive Branch and Congress to implement the President's Blue Ribbon Commission 2012 Report near term and long term recommendations.
- 6.** The Governor and the General Assembly should seriously consider and act on the recommendations of the CASE Report on the Future of Nuclear Power in Connecticut published in 2012.. (See NEAC 2012 Annual Report for more information).

NEAC

1. Continue to monitor the stability of the Employee Concern Program and Safety Conscious Work Environment and Corrective Action Program at Millstone Power Station.
2. Continue to monitor operations and activities at Millstone Power Station and Connecticut Yankee Site, including the dry cask storage programs.
3. Continue to encourage the development of a solution to the problem of Spent Nuclear Fuel, High Level Waste and Greater Than Class C Low-Level Radioactive Waste and the safe transfer of this nuclear waste from Connecticut.
4. Determine status of the Low Level Waste Compact and its impact on Connecticut.

NUCLEAR ENERGY ADVISORY COUNCIL MEMBERSHIP

John W. (Bill) Sheehan (Chair) Waterford: BS, Naval Science, US Naval Academy; MBA, Rensselaer Polytechnic Institute; former Commanding Officer, Nuclear powered submarine.; retired Navy Captain.

Pearl Rathbun (Vice Chair) Niantic: BA Economics. Eastern Connecticut State University. Former Director of Emergency Management, East Lyme.

Gerald D. Hicks Waterford: BS Mechanical Engineering University of Colorado. MS Operations Research/Systems Analysis US Naval Postgraduate School. Retired Navy Captain, former Commanding Officer, Nuclear Powered Submarine, represents Dominion Nuclear Connecticut.

Marjorie W. DeBold Haddam: BA Psychology and Child Development, UC Berkeley. Retired teacher, former First Selectman of Haddam.

Gregg W. Dixon Niantic: PhD Mechanical Engineering (Nuclear) Stanford University. Retired Professor, Mechanical Engineering, US Coast Guard Academy.

Thomas A. Nebel Niantic: BS Industrial Engineering New York Polytechnic University; Retired Monsanto/Solutia - former First Responder & NE HAZMAT Coordinator for company; C.E.R.T. Member Missouri & Connecticut.

Robert J. Klancko Woodbridge: BSE Chemical Engineering, UCONN. PE, CSP, Engineering Consultant, member State Emergency Response Commission.

Raymond D. Woolrich Waterford: BS, Nuclear Science, US Naval Academy; MS Computer Systems and Financial Management, US Naval Postgraduate School; former Commanding Officer, Nuclear Powered Submarine; retired Navy Captain; Naval Analyst, Sonalysts, Inc.

Rep. Kevin Ryan Oakdale: OD, Pennsylvania College of Optometry. Legislator, Adjunct Faculty, University of New Haven.

James Sherrard Mystic: PhD Nuc. & Mech Eng. MIT/UCONN. Chairman, Nuclear Engineering Technology Department, TRCTC.

Edward L. Wilds, Jr. Griswold: PhD Physics, UCONN. Director, Radiation Division, Department of Environmental Protection. Resigned January 2014

Mr. Jeffrey Semancik Groton: BS Physics, US Naval Academy. MS, Electrical Engineering. Former qualified engineer, nuclear powered aircraft carrier. Former Senior Reactor Operator at Millstone Unit 3. Director, Radiation Division, Department of Environmental Protection.

NUCLEAR ENERGY ADVISORY COUNCIL
7:00 PM
March 31, 2014
RTM MEETING ROOM
WATERFORD TOWN HALL
15 ROPE FERRY ROAD
WATERFORD, CT
SPECIAL MEETING

MINUTES

Members Present

Mr. Bill Sheehan, Chair
Ms. Pearl Rathbun, Vice Chair
Ms. Marge DeBold
Rep Kevin Ryan
Mr. Gregg Dixon
Mr. Tom Nebel
Mr. Rober Klancko
Mr. Ray Woolrich
Mr. James Sherrard
Mr. Mike Firsick Representing DEEP Commissioner Klee,

1. Call to Order of Meeting

NEAC Chair Sheehan called the meeting to order at 7:03 PM at Waterford Town Hall, Waterford, CT.

NEAC members and Nuclear Regulatory Commission (NRC) introduced themselves

2. PROGRAM:

a) Briefing on Millstone Power Station Annual Assessment by Mr. Raymond McKinley, Branch Chief, NRC and Ms. Jo. Ambrosini, Senior Resident Inspector, MPS.

NRC reported that they conducted 8,157 hours of inspections at Millstone Power Station in 2013. All findings during these inspections were in the GREEN category so MPS is in the "Licensee Response" column for inspections in 2014. There is a Special Inspection in progress on Turbine Driven Auxiliary Feedwater Pump problems and Dominion's response to these problems. The Report of that inspection is expected out in May 2014. The NRC also reported on a new requirement for reporting the non operational status of Emergency Radiation Monitors (Licensee must report the outage within fifteen minutes of it occurring. There is some discussion regarding this requirement since routine maintenance generally takes longer than fifteen minutes. The NRC is evaluating this new requirement. Responding to questions from NEAC, the NRC gave a short description of

recent Security Inspections although the results of those inspections are not for public distribution so were not discussed.

3. Public Comment

There was no public comment

4. NRC Correspondence of note received since last meeting.

5. Request for Additional Information Regarding Response to Bulletin 2012-01 "Design Vulnerability in Electric Power System dated 12/20/2013
6. Acknowledgement of Licensee Dose Assessment Submittals Associated With Near-Term Task Force Recommendation 9.3 Related to the Fukushima Dai-Ichi Nuclear Power Plant Accident dated 01/29/2014
7. Notice of Enforcement Discretion for Dominion Nuclear Connecticut, Inc. Regarding Millstone Power Station Unit 3 (AC NO MF3393, NOED NO 14-1-01) dated 01/30/2014
8. Millstone Power Station, Unit 2 – Staff Assessment of the Seismic Walkdown Report Supporting Implementation of Near-Term Task Force Recommendation 2.3 Related to the Fukushima Dai-Ichi Nuclear Power Plant Accident (Tac No MF0142) dated 01/30/2014
9. Millstone Power Station, Unit 3 – Staff Assessment of the Seismic Walkdown Report Supporting Implementation of Near-Term Task Force Recommendation 2.3 Related to the Fukushima Dai-Ichi Nuclear Power Plant Accident (Tac No MF0143) dated 01/30/2014
10. Millstone Power Station, Units 2 and 3 – Interim Staff Evaluation Relating to Overall Integrated Plan in Response to Order EA-12-049 (Mitigation Strategies) (Tac NOS. MF0858 and MF0859) dated 01/31/2014
11. Millstone Power Station-NRC Integrated Inspection Report 05000336/23013005 and 05000423/2013005 dated 02/10/2014
12. Millstone Power Station: NRC Emergency Preparedness Annual Inspection Report Nos. 05000336/2013501, 05000423/2013501, 05000336/2013502 and 0500043/2013502; NRC Security Annual Inspection Report NOS. 05000336/2013401 and 05000423/2013401 dated 02/12/2014
13. Millstone Power Station, Unit 2 – Audit Report Regarding Flooding Walkdowns to Support Implementation of Near-Term Task Force Recommendation 2.3 Related to the Fukushima Dai-Ichi Nuclear Power Plant Accident (TAC NO. MF0246) dated 02/19/2014
14. Supplemental Information Related to Request for Information Pursuant To Title 10 of the Code of Federal Regulations 50.54(f) Regarding Seismic Hazard Reevaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident dated 02/20/2014
15. Annual Assessment Letter for Millstone Power Station Units 2 and 3 (Report 05000336/2013001 and 05000423/2013001) dated 03/04/2014
16. Millstone Power Station, Units 2 and 3 – Staff Assessment of Response to 10 CFR 50.54(f) Information Request Regarding NTTF 2.3 Flooding Walkdowns (TAC NOS MF0246 and MF0247) dated 03/20/2014

NEAC members had no comments on the correspondence.

17. Next Meeting Date and Time

The next NEAC meeting will be on May 20,2014 in conjunction with the CY FSAC Annual Meeting.

18. Adjournment – Meeting adjourned at 7:35 PM. (Nebel/Rathbun)

**NUCLEAR ENERGY ADVISORY COUNCIL
7:00 PM
SEPTEMBER 17, 2014
AUDITORIUM ROOM
WATERFORD TOWN HALL
15 ROPE FERRY ROAD
WATERFORD, CT
SPECIAL MEETING**

MINUTES

Members Present

Mr. Bill Sheehan, Chair
Ms. Pearl Rathbun, Vice Chair
Ms. Marge DeBold
Mr. Denny Hicks
Mr. Robert Klancko
Mr. Tom Nebel
Mr. Raymond Woolrich
Rep Kevin Ryan
Mr. James Sherrard
Mr. Jeffrey Semancik representing Commissioner Klee

1. Call to Order of Meeting

NEAC Chair Sheehan called the meeting to order at 7:03 PM at Waterford Town Hall, Waterford, CT.

Mr. Semancik was introduced as the new CT DEEP Radiation Division Director and NEAC designee for Commissioner Klee.

2. PROGRAM:

a. Update on Millstone Station Operations by Dominion Nuclear Connecticut representatives

Ms. Lori Armstrong (Director of Nuclear Safety and Licensing), Mr. Kenneth Holt (Manager of Communications), and Mr. Kevin Hennessey (Director of Government Affairs) briefed NEAC and answered questions from the council concerning:

- i. Periodicity of emergency planning exercises
- ii. Staffing capabilities of Emergency Operations Facility during inclement weather
- iii. The depth of Dominion metallurgical expertise
- iv. Actions to provide compensatory monitoring during periods when effluent radiation monitors are out of service
- v. Adequacy of supply chain and quality assurance in relation to turbine driven auxiliary feedwater pump failures
- vi. Dominion actions and analyses to determine related causes and contributors to multiple NRC special inspection teams.

3. Public Comment

Two members of the public were in attendance. They did not comment nor ask any questions.

4. Approval of Minutes of the March 31, 2014 NEAC meeting

Minutes were approved without any corrections.

5. NRC Correspondence Received since past meeting.

The list of NRC Correspondence was reviewed.

- a. MPS2- Issuance of Amendment Re: Revise Technical Specification ¾.7.11 Ultimate Heat Sink dated 04/18/2014
- b. MPS – NRC Integrated Inspection Report dated 05/07/2014
- c. Screenings and Prioritization Results Regarding Information Pursuant to 10CFR50.54(f) Regarding Seismic Hazard Re-Evaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-Ichi Accident dated 05/09/2014
- d. MPS2&3 – NRC Baseline Security Inspection Report and Notice of Violation dated 06/24/2014
- e. MPS2&3 – Plan for the Onsite Audit Regarding Implementation of Mitigating Strategies and Reliable Spent Fuel Pool Instrumentation Related to Orders EA-12-049 and EA-12-051 dated 07/02/2014
- f. MPS3 – Relaxation of Schedule Requirements for Order EA-12-049 “Issuance of Order to Modify Licenses with regard to Requirements for Mitigation Strategies for Beyond Design Basis External Events dated 07/03/2014
- g. MPS3 – Issuance of Amendment Re: Proposed Changes to Technical Specification ¾.7.5 “Ultimate Heat Sink” dated 07/11/2014
- h. MPS2- Request for Additional Information Associated with Near-Term Task Force Recommendation 2.1 Seismic Hazard and Screening Report dated 07/16/2014
- i. MPS – NRC Integrated Inspection Report dated 08/12/2014
- j. MPS2&3- Request for Additional Information Regarding Response to Request for Information Pursuant to 10CFR20.54f Recommendation 9.3 Phase 2 Staffing Assessment dated 08/21/2014
- k. MPS – NRC Special Inspection Report with Preliminary White Finding dated 08/28/2014
- l. MPS2&3 – NRC Special Inspection Report dated 08/28/2014 (one apparent violation)
- m. MPS2&3 – Mid Cycle Assessment Letter for MPS Units 2 and 3 dated 09/02/2014
- n. MPS – NRC Problem Identification and Resolution Inspection Report dated 09/12/2014

There were no questions from NEAC members.

6. Next Meeting Date and Time

The next NEAC meeting will be the annual meeting on December 11, 2014.

7. Adjournment

Motion was made by Mr. Sherrard and seconded by Mr. Klancko to adjourn; no objections; unanimous vote in favor; meeting adjourned at 8:30 PM.

NUCLEAR ENERGY ADVISORY COUNCIL

7:00 PM

December 11, 2014

**LOUISE APPLEBY ROOM
WATERFORD TOWN HALL
15 ROPE FERRY ROAD
WATERFORD, CT 06385
REGULAR MEETING
MINUTES**

Members Present

Mr. Bill Sheehan, Chair
Ms. Pearl Rathbun, Vice Chair
Ms. Marge DeBold
Mr. Denny Hicks
Mr. Tom Nebel
Mr. Raymond Woolrich
Mr. James Sherrard
Mr. Jeffrey Semancik representing Commissioner Klee

1. Call to Order of Meeting

NEAC Chair Sheehan called the meeting to order at 7:05 PM at Waterford Town Hall, Waterford, CT

2. Approval of Minutes of September 17, 2014 NEAC meeting

Approval of Minutes of September 17, 2014. Motion was made and seconded by Sherrard /Nebel to approve minutes; no objections; unanimous vote in favor.

3. Public Comment

No public comment

4. NRC Correspondence Received since past meeting

Chair Sheehan passed out the list of NRC correspondence received and forwarded to Council members via email. See Attached. No Questions

5. CY 2014 Annual Report Discussions

The Council discussed the 2014 Annual Report. Members proposed that sections on the change to the Millstone Plant Heat Sink Temperature and on actions related to the Fukushima Dai-Ichi Accident be included in the Annual Report. An Action Item for NEAC regarding Low Level Radioactive Waste was also added to the Report. Additional minor edits were also suggested.

6. CY 2014 Annual Report Approval

Motion made by Sherrard and seconded by Rathbun to approve the 2014 Annual Report with the changes discussed; no objections; unanimous vote in favor.

7. Approval of Regular Meeting Schedule for CY 2015

Motion was made by DeBold and seconded by Rathbun to accept 2015 meeting schedule as presented; no objections; unanimous vote in favor. Schedule attached.

8. Programs for CY 2015

Council discussed potential topics for 2015. See Attached list of potential topics.

9. Next Meeting Date and Time

April 17, 2015 at Waterford Town Hall. Time to be determined in coordination with the U.S. Nuclear Regulatory Commission.

10. Adjournment

Motion was made by Nebel and seconded Woolrich to adjourn; no objections; unanimous vote in favor; meeting adjourned at 7:44 PM.

NRC Correspondence Received Since Last NEAC Meeting

1. MPS3- Final Significance Determination For a WHITE Finding With Assessment Follow-up and Notice of Violation dated 10/20/2014.
2. MPS 2&3 – U. S. NRC Material Control and Accounting Program Inspection Report dated 10/22/2014.
3. MPS 2&3-NRC Evaluated Emergency Preparedness Exercise Inspection Report dated 10/22/2014.
4. MPS2-Audit Plan Regarding Individual Plant Examination of External Events Supporting Information for Seismic Screening dated 10/22/2014.
5. MPS-NRC Integrated Inspection Report 3rd Qtr dated 10/27/2014
6. MPS 2-Report of Regulatory Audit Regarding Individual Plant Examination fo External Events Supporting Information For Seismic Screening dated 11/13/2014
7. MPS 1-NRC Inspection Report dated 11/13/2014
8. Response Requirements for Request for Information Regarding Flooding Hazard Integrated Assessments for Recommendation of Near Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident dated 11/21/2014.
9. Screening and Prioritization Results Regarding Seismic Hazard Reevaluations for Recommendation of the Near Term Task Force Review of Insights From the Fukushima Dai-Ichi Accident Based on Individual Plant Examination of External Events Evaluation dated 11/21/2014.

2014 Meeting Schedule

Thursday April 16, 2015 – NRC 2014 Performance Evaluation

Tuesday May 19, 2015- Meeting with Connecticut Yankee Fuel Storage Advisory Committee

Thursday September 17, 2015 – Tour of Millstone Power Station/Dominion Update

Thursday December 10, 2015 – Annual Report Preparation

Special Meetings would be at the call of the Chairman.

Possible NEAC Meeting Topics - 2015

Joint NRC/NEAC Meeting

Tour of Millstone Power Station followed by Dominion Update Brief

Update on Dominion Operator Training Requirements

Update on Employee Concerns and Safety Conscious Work Environment

Status of Low Level Radioactive Waste Disposal Compact

Meeting with new Millstone Site Vice President

Tour of new Dominion EOC in Norwich Industrial Park

Status of National Academy of Sciences (NAS) Report on Cancer Rates in Vicinity of Nuclear Power Plants in US.

Tour of Renovated Three Rivers Community College Nuclear Power Plant Training Facility

Status of Blue Ribbon Commission Report Action Items

Meeting With Connecticut Yankee (CY) Fuel Storage Advisory Committee

Annual Report Preparation



State of Connecticut

NUCLEAR ENERGY ADVISORY COUNCIL

19 Laurel Crest Drive
Waterford, CT 06385
October 30, 2014

Mr. Stephen Scace
Site Vice President
Millstone Power Station
Dominion Nuclear Connecticut
P. O. Box 128
Waterford, CT 06385

Dear Mr. Scace:

On September 17, 2014 the State of Connecticut Nuclear Energy Advisory Council (NEAC) was briefed by Mr. Kevin Hennessy, Director of Government Affairs, and Ms. Lori Armstrong, Director of Nuclear Safety and Licensing, regarding the performance of Millstone Power Station over the past year.

In light of recent events, members of NEAC had a number of questions regarding the events at the Millstone Power Station that seem to point to a declining performance. The most important question was whether management had looked for a root “root cause” that might not be obvious that connected seemingly unrelated performance breakdowns.

Since NEAC has not received any response, either verbally or in writing, this letter is requesting that Dominion Nuclear Connecticut provide a response to the basic question whether management has conducted such an investigation to see if there is a possible root “root cause” and if there were any results from such an investigation.

Thank you for your consideration in this matter.

Sincerely,

J. W. Sheehan
Chairman, NEAC

Copy to:

NEAC members

Mr. Kevin Hennessy, Director of Government Affairs, Dominion Nuclear Connecticut

Ms. Lori Armstrong, Director of Nuclear Safety and Licensing, Dominion Nuclear Connecticut

Ms. Jo Ambrosini – Senior Resident Inspector Nuclear Regulatory Commission (NRC)

Dominion Nuclear Connecticut, Inc.
Rape Ferry Rd., Waterford, CT 06385
Mailing Address: P.O. Box 128
Waterford, CT 06385



dom.com

Monday, November 10, 2014

Mr. J. W. Sheehan
19 Laurel Crest Drive
Waterford, CT 06385

Dear Mr. Sheehan

Thank you for your letter dated October 30, 2014. I understand that there was some confusion about a request for information from the Nuclear Energy Advisory Council (NEAC) at your September meeting. Kevin Hennessy, our director of Government Affairs, has assured me that you and he have spoken in order to eliminate future confusion regarding information requests.

Your letter asks if station management has looked for a root "root cause" that connects recent performance deficiencies at Millstone. All significant events at Millstone including the ones discussed at your recent meeting receive a causal evaluation and typically involve personnel from other Dominion and industry power stations to provide a diverse and unbiased perspective. In addition to the individual evaluations, we assessed the causal evaluations in aggregate to look for common organizational and programmatic links. We did not identify a "root" link between these events.

During the collective review we also evaluated safety culture implications. There were no aspects of safety conscious work environment that we found lacking. We did identify two areas where we can make improvements to Millstone's safety culture. Specifically, there is room to improve in the areas of problem identification and evaluation; and establishing clarity around decision making. As a result, we have implemented performance improvement actions to address these areas.

One of Dominion's core values is excellence and we strive for it in all our operations. You have noted recent challenges in this area, and we are assembling a team using fleet and industry resources to establish actions and resources to ensure Millstone's performance meets both your and our expectations.

One final note. You may have seen in The Day that I have announced my retirement effective Feb. 1, 2015. John Daugherty has been selected as Millstone's new site vice president. John comes to us from our North Anna Power Station which is a consistent top performing station in the industry. John also has extensive U.S. Nuclear Navy officer experience. I know you will have many opportunities to interact with him.

Sincerely,

A handwritten signature in black ink, appearing to read "Scace".

Stephen E. Scace
Site Vice President, Millstone Power Station