

April 16, 2010

MEMORANDUM TO: John Kinneman, Director, DNMS, Region I
Leonard Wert, Jr., Director, DRP, Region II
Steven Reynolds, Director, DNMS, Region III
Arthur Howell, Director, DNMS, Region IV

FROM: Vonna Ordaz, Director /RA/
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF THE MARCH 2-3, 2010, INDEPENDENT SPENT FUEL
STORAGE INSTALLATION INSPECTOR COUNTERPART MEETING
WITH DIVISION OF SPENT FUEL STORAGE AND TRANSPORTATION,
REGIONAL INSPECTORS, AND MANAGEMENT

On March 2-3, 2010, the Division of Spent Fuel Storage and Transportation (SFST) conducted an independent spent fuel storage installation (ISFSI) inspector counterpart meeting with inspectors and managers from SFST and the regional offices. At the invitation of SFST in a memorandum from the Division Director, the meeting was hosted by SFST at the Office of Nuclear Material Safety and Safeguards (NMSS), 6003 Executive Boulevard building in Rockville, Maryland.

The purpose of the meeting was to discuss significant inspection related issues in the ISFSI arena and ideas to provide more effective and efficient regulation of spent fuel storage and transportation.

The discussions identified areas of common inspection experience and approaches, focused on the more risk significant activities, defined more efficient methods for planning and conducting inspections, and provided a platform for establishing stronger teamwork. Other discussion topics included: (1) retroactive application of 10 CFR Part 72 amendments to loaded casks; (2) Headquarters and Regional inspection activities; (3) areas of improvement and lessons learned related to the inspection program; (4) resource allocation, budgeting, and time charging; (5) ISFSI security issues; (6) inspection resources; (7) technical issues (e.g., analysis and design of an ISFSI pad, example of a canister weld flaw, helium and pressure testing of confinement boundaries, integrated spent fuel management plan, shielding and radiation protection, the Staff Requirements Memorandum (SRM) for COMDEK 09-001 issued 2/18/2010, "Revisiting the Paradigm for Spent Fuel Storage and Transportation Regulatory Programs," Indian Point license amendment), and (8) a proposed approach for inspection of the implementation of 10 CFR Part 72 amendments to loaded casks.

This was the sixth counterpart meeting since 2002. The meeting offered an opportunity for the program office and regions, as well as other program offices, to discuss current issues and developments in the ISFSI inspection arena. Participation was exceptional and the meeting was very beneficial.

J. Kinneman, et al.

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An attendance list is included as Enclosure 1. Enclosure 2 is the final meeting agenda. Enclosure 3 is a summary of topics discussed and associated action items identified at the meeting. SFST/RIO shall work with your staff on the action items and shall coordinate their resolution. Comments associated with action items assigned to the regions should be provided to Earl Love at 301-415-3170, e-mail: earl.love@nrc.gov.

CONTACT: Earl Love, NMSS/SFST
(301) 492-3170

Enclosures:

1. Attendance List
2. ISFSI Inspection Counterpart Meeting Final Agenda
3. Points and Action Items

cc: See attached list

J. Kinneman, et al.

-2-

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1. Attendance List
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cc: See attached list

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OFC:	SFST	SFST	SFST	N	SFST				
NAME:	ELove	DPstrak	DWeaver	VOrdaz					
DATE:	4/08/10	4/08/10	04/13/10	04/16/10					

OFFICIAL RECORD COPY

Memorandum to Multiple

cc w/ Enclosures

Headquarters

Ordaz, Vonna
Lorson, Raymond
Weaver, Douglas
Garner, Douglas

Benner, Eric
Campbell, Larry
Pstrak, David
Wastler, Sandra
Rahimi, Meraj

Love, Earl
Morell, Clyde
Temps, Rob

Region I

Nicholson, John
Hammonn, Steven

Region II

Carrion, Robert
Franke, Mark

Region III

Lipa, Christine
Learn, Matt
Tapp, Jeremy
Neurauter, Jim

Region IV

Spitzberg, Blair
Everett, Vincent

ATTENDANCE LIST

Headquarters

Weber, Michael F. – Director, Office of NMSS
Ordaz, Vonna – Director, Division of SFST
Weaver, Douglas - Deputy Director, Licensing, and Inspection Directorate
Lorson, Raymond – Deputy Director
Pstrak, David – Rules, Inspections, and Operations Branch, Chief
Benner, Eric – Licensing Branch, Chief
Campbell, Larry – Criticality, Shielding, and Dose Assessment Branch, Chief
Rahimi, Meraj – Technical Review Directorate, Acting Branch Chief
Wastler, Sandra – NSIR, Branch Chief
D’Ettor, Mike – NSIR, Security Specialist
Garner, Douglas – NSIR, Security Specialist
Temps, Rob – Sr. Safety Inspector
Love, Earl – Storage and Transportation Safety Inspector
Morell, Clyde – Storage and Transportation Safety Inspector
Wharton, Ray – Sr. Project Manager
Einziger, Robert – Sr. Materials Engineer
Thompson, Elizabeth – Sr. Health Physicist
Garcia-Santos, Norma – Project Manager
Helton Shana – Sr. Project Manager
Tang, David – Sr. Structural Engineer
Tripathi, Bob – Sr. Structural Engineer
Li, Zhian – Sr. Criticality and Shielding Reviewer
Sippel, Tim –Division of High Level Waste and Repository Safety, Technical Reviewer

Region I

Nicholson, John
Hammonn, Steven

Region II

Carrion, Robert
Franke, Mark

Region III

Lipa, Christine
Learn, Matt
Tapp, Jeremy
Neurauter, Jim

Region IV

Spitzberg, Blair
Everett, Vincent

ISFSI INSPECTOR COUNTERPART MEETING DRAFT AGENDA

March 2-3, 2010

Executive Boulevard Building, Room EBB-01-B13

Purpose:

The purpose of this meeting is to discuss significant inspection-related issues in the ISFSI arena and ideas to provide more effective and efficient regulation of spent fuel storage and transportation.

Outcomes:

Our discussions will identify areas of common inspection experience and approaches, focus on the more risk significant activities, define more efficient methods for planning and conducting inspections, and will provide a platform for establishing stronger teamwork. The overall outcome is to improve regulatory efficiency and effectiveness.

Process:

Tuesday, March 2, 2010

8:30 - 9:00 am SFST Program Activities

- Welcome and opening remarks (Ordaz)
- Introductions and meeting objectives (Pstrak)
- Overview of Agenda and 2009 Action Items (Love)

9:00 - 10:00 am Retroactive Application of Part 72 Amendments to Loaded Casks

- EGM-09-006, Inspection Methodology (Regions)

10:00 - 10:30 am Break

10:30 - 11:30 am SFST and Regional Inspection Activities

- Status of vendor/fabricator inspections (Love)
- Status of ISFSIs in each Region (Regions)
 - Summary of inspections completed including:
 - Inspection findings of interest
 - Experience with dry runs & first loadings
 - Experience in conducting operational inspections
 - Problems in conducting inspections
 - FY 2010/2011 planned activities
 - Inspection support needed from SFST/Regions
 - Areas for Improvement / Lessons Learned / Information Sharing

11:30 - 1:00 pm Lunch and time to check-in with office

1:00 - 2:00 pm SFST and Regional Inspection Activities (contd.) (All)

Enclosure 2

2:00 - 2:30 pm Break

2:30 - 4:30 pm Open Forum: General Issues Q&A

- HP/RP inspection process (All)
- Pad and heavy load inspections
- Budget for periodic reload inspections
- Unloading plans for AFR ISFSIs

4:30 - 5:00 pm Wrap-up

- Review of any follow-up items identified during the day (Love)
- Summary of day's activities (Pstrak)

6:00pm Dinner: Clydes Tower Oaks Lodge; directions to be provided

Wednesday, March 3, 2010

8:00 – 9:45 am ISFSI Security Issues

- ISFSI Security
 - Overview (Wastler)
 - Rulemaking and Guidance Documents (Brochman)
 - Inspection Program and Procedures (Garner)
 - Inspector Training (Rockhill/Garner)
 - ISFSI security budget
- SFST security order process (Wharton)

9:45 - 10:00 am Break

10:00 – 10:45 am Resource Allocation/Time Charging

- NMSS/NRR ISFSI resource allocation (Heumann/Anderson)
- SFST inspection time charging refresher (Temps)

10:45 - 11:45 Discussion on Technical Issues

- Analysis and Design of an ISFSI Pad (SMMB)
- Palisades Plant, Weld Flaw (SMMB)
- ISG-25, Helium and Pressure Testing of Confinement Boundaries (TCB)

11:45 - 1:00 pm Lunch and time to check-in with office

1:00 - 2:15 pm Discussion on Technical Issues (contd.)

- Integrated Spent Fuel Management Plan (SMMB)
- COMDEK 09-001 (TRD)
- ISG-26A, Shielding and Radiation Protection Reviews (CSDAB)
- Indian Point License Amendment (TCB)

2:15 - 2:45 pm Break

2:45 - 4:30 pm Open Discussion of Topics of Interest (All)

- Dry Storage Information Forum, Baltimore, MD, May 4-6, 2010 (All)
- Solicitation of Topics for Discussion at a Spent Fuel Storage and Transportation Licensing Conference, June 23-24

4:30 - 5:00 pm Meeting Wrap-up

- Review of any follow-up items identified during the day (Love)
- Summary of day's activities and meeting overall (Pstrak)

- MEETING ADJOURNED -

POINTS AND ACTION ITEMS

POINTS:

1. There was extensive discussion at the meeting on many of the topics on the agenda. As a result, a number of actions were identified requiring follow up from SFST and the regions. The following issues were discussed: (1) ISFSI pad design and related seismic analysis; (2) the process of implementing security orders; and (3) enforcement method for issuing violations when a licensee implements full or partial changes to Certificate of Compliance (CoC) amendments to previously loaded casks. The aforementioned topics evoked excellent dialogue by all as to required inspection scope, technical inspection support, and inspection guidance from headquarters.
2. General licensees are bounded by the terms and conditions of the CoC amendment under which a cask was loaded. An Enforcement Guidance Memorandum (EGM) has been developed to define the enforcement process for violations when a licensee implements partial or full changes to CoC amendments for previously loaded casks. Consequently, licensees may be subject to enforcement under the following conditions: (1) partial implementation of amendment changes after issuance of the EGM; (2) failure to undo any amendment changes, conform with the new amendment, or file an exemption within three months after issuance of the EGM; and (3) fully implement changes after issuance of the EGM and until issuance/implementation of final rule "License and Certificate of Compliance Terms", RIN 3150-AI09. During the planning stage of a pre-dry run ISFSI inspection, regional inspectors shall determine from licensees the current CoC amendment in effect during loading and/or reloading campaigns and assess the impact to EGM-09-006. In addition, the inspectors shall verify licensee compliance with the 10 CFR Part 72 (Part 72 rule), as applicable.
3. Regions and the Office of Nuclear Security and Incident Response (NSIR) continue collaborating to enhance the process of performing security inspections including scheduling of inspections and implementation of Temporary Instructions (TIs). NSIR shall actively coordinate with the regions the process of reviewing and implementing ISFSI security plans for physical security inspections and qualification requirements for physical security inspectors.
4. In accordance with the rules for NMSS meetings, feedback forms were provided to the counterpart participants. Forms were returned at the completion of the meeting. Overall, the meeting was embraced by all with regard to facilitating the sharing of significant inspection related issues as well as areas for improvement toward effective and efficient regulation of spent nuclear fuel in the ISFSI arena. The meeting included proactive participation and established stronger teamwork and coordination between and amongst regions and headquarters.

ACTION ITEMS:

1. Distribute the "Spent Nuclear Fuel" magazine to the Regions. (Action: Headquarters)
2. Include the review and assessment by inspectors of licensees' 72.48 reports during ISFSI inspections. (Action: All)
3. Track inspection reports related to EGM-09-006 and/or the new Part 72 rule. (Action: Headquarters)
4. Regarding the Physical Security Inspector qualification process, regions shall review documents on qualification requirements for Physical Security Inspectors, provide feedback to NSIR on these qualification requirements, and provide NSIR with an estimate of the resources needed for physical security inspections and related tasks. (Action: Regions)
5. Schedule monthly regional conference calls amongst various branch chiefs. First call was conducted on March 25, 2010. (Action: SFST/Rules, Inspections, and Operations Branch)
6. Provide feedback to the Criticality, Shielding, and Dose Assessment Branch (in SFST) specific to ISG-26A, "Additional Considerations in the Shielding and Radiation Protection Reviews of Spent Fuel dry Storage Systems," and differences when inspecting limiting conditions of operation (LCO) and technical specifications. (Action: Regions)