



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

May 22, 1991

Docket No. 50-305

MEMORANDUM FOR: John N. Hannon, Director  
Project Directorate III-3  
Division of Reactor Projects III/IV/V

FROM: Allen G. Hansen, Project Engineer  
Project Directorate III-3  
Division of Reactor Projects III/IV/V

SUBJECT: TRIP REPORT, KEWAUNEE, MAY 15-17, 1991

DATE: May 21, 1991

I travelled to Green Bay/Kewaunee, WI on May 15-17, 1991 to visit with WPSC corporate officials, Kewaunee plant officials, the SRI and RI, and to tour the plant. Following is a summary of the significant events of this trip.

Wed 15 May

Travelled in afternoon, early evening. Used travel time to review NUREG/CR-1250 (Vol 1) discussing TMI.

Thur 16 May AM

Spent morning with Pat Castleman (SRI) in meeting with WPSC headquarters personnel in Green Bay. Attendees at meeting included:

Rick Pulec (Superintendent, Nuclear Licensing)  
Dave Molzahn (Assistant, Nuclear Licensing)  
Pat Michalkiewicz (Head, Systems)  
Scott Cherveney (Systems)  
Barb Declene (Licensing)  
Pat Finnemore (Projects-PZR surge line)  
Barb Pribek  
Greg Ritter

We reviewed upcoming Tech Spec changes and other items being generated by WPSC, including:

- (1) Instrumentation tables (TS Table 3.5.1)  
(upgrading to make less confusing. Also proposing new requirements for testing ESF and Rx trip systems so they do not have to use jumpers.)
- (2) Upper plenum injection  
(enabling them to enrich fuel, move flux distribution closer to center of core)

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- (3) S/G alternative plugging criteria  
(at support plates)
- (4) S/G flexible sleeving  
(license mod)
- (5) S/G indications in roll expansion area
- (6) Procurement of radiation calibrator  
(In TS, P-6 reads milliamps, should be % power)
- (7) Iodine-131 spec  
Rick claims temporary, their letter (which I agree with)  
intimates permanent)
- (8) GL 89-01 re Radiological Effluent TS  
(slowly coming)
- (9) Degraded grid  
(this fall)
- (10) Subcooling ICCMS (Inadequate Core Cooling Monitoring System)  
(System installed, need to change TS, delayed from last year)
- (11) Cask drop  
(Fluor to do analysis)

Next, we discussed open items on the PMR:

- (1) 53916 - PM on Rx trip breakers  
TS review due 12/30/92
- (2) 69643 - B88-08 - RCS piping thermal stresses  
NRC licensing action pending
- (3) 74268 - Anchor Darling check valve bolting  
Letter coming from WPSC soon
- (4) 74424 - GL 88-20 - IPE  
Letter coming to delay until 1992
- (5) 68558 - Station blackout rule  
TS review pending. WPSC wants to delay implementation until  
1993, awaiting my notification if this is okay.

(6) 69750 - GL 88-17 - Decay heat removal

WPSC drafting letter, talked with ATGjr already.

(7) 73583 - Control room vent report review

Completed this outage.

(8) 74017 - GL 89-13 - Service water

Letter coming (July). WPSC talked with ATGjr already.

Next, discussed S/G girth weld inspection results. A few areas showed indications several years ago. WPSC committed to 3 augmented inspections. First augmented inspection was completed this outage, and showed significantly more indications than before. WPSC claims that the increase is due to more sophisticated instrumentation, and that the last two augmented inspections are no longer necessary. They are willing to come to NRC and make presentation to support their claims. I will talk with ATGjr and Emmitt Murphy, set up call with WPSC.

IST SER response from WPSC (ASME code testing) - plant changes in progress, additional justification for denials being prepared. Being submitted within a week.

This June - Pipe thinning progress update - informal report.

By end of July - USAR update (complete re-issuance of whole document in WordPerfect).

Draft generic letter re RCP seals - industry asking for extension.

August - ISI summary report

October - Operator requal program - Revision 7

After the above reviews, we focused on the PZR surge line thermal stratification issue (with Pat Michalkiewicz, Pat Finnemore, Scott Cherveney).

WPSC lent me a photo album showing each of the pipe whip restraints. In addition, I received a copy of two drawings showing the location of the restraints. During conversations, Pat Finnemore announced that the restraints did not need to be removed, but rather only the gap needed to be increased (this was news to all others present). I asked how the current gaps compared with the restraint design analysis gaps. WPSC indicated that they believed the as-built gaps were essentially the same as the design gaps. Further questioning revealed that WPSC had not looked at the restraint analysis, at least to the extent that they had not checked to determine the allowable gap for each restraint.

WPSC is pushing to have the LBB analysis accepted (they have a substantial cash investment in it already). They are reluctant to do any further analysis (for example, will the restraints with increased gaps still satisfy whip restraint design criteria?).

I will review this issue with ATGjr and Shou Hou, and then notify WPSC of the status and any requested follow up. WPSC is also willing to come to NRC to discuss this issue.

The last issue discussed at this meeting was SPDS (Safety Parameter Display System). WPSC stated that the hardware, software and verification are complete, and that the validation is to be completed this fall.

Thurs 16 May PM

I completed site-specific access training for Kewaunee. Had informal discussions with Pat Castleman and Ken O'Brien. Then Pat and I toured much of the "clean" parts of the plant. We spent some time in the control room, where Pat described the layout of the controls and displays.

Returning to the RI office, I met Patricia Loughheed, a RIII inspector (DRS) who had just completed a one week inspection. Informal discussions continued.

Fri 17 May AM

Reviewed yesterday's activities. Went to WPSC morning meeting as observer, was introduced to the WPSC attendees. Attended Patricia Loughheed's exit meeting with WPSC personnel. The rest of the morning was spent with Ken O'Brien in the plant. We were given a run down on the RG 1.97 instrumentation status by Dave Nalepka, Tom Webb and one other WPSC staff member. They pointed out the difficulties they will face if exceptions are not granted for some to the isolations that are required, due to the space limitations in the existing cabinets, and the need to maintain separation between existing components. This will be an issue during the upcoming RG 1.97 inspection, which I will be a part of, this fall.

Accompanied Ken as he conducted inspections of all areas of plant except containment. Focused on proper tag-outs for equipment being serviced and on proper security at high radiation areas. Inspected the newly installed security grate and blow out panel for the TDAFWP room. Ken stated that the analysis supporting the panel design had not been forwarded to him yet. We also identified some penetrations from the TDAFWP room into the adjoining safety systems rooms which did not appear to be adequately sealed. Ken to follow up.

With regard to radiation safety, my initial impressions were very positive. I saw no violations and had no concerns. However, with regard to industrial safety (OSHA items), I was not impressed. There were several items which caught my attention, such as valve stem shafts at eye level not marked or padded (injury hazard), unistrut projecting beyond machinery on the floor (tripping hazard), loose bolts on the floor near but not within a roped off work area. I believe these are relatively minor issues, that should be addressed by management. However, one issue which could be of a major concern, and which I pointed out to the licensee, is the obscure location or complete absence of fire exit signs. There are none whatsoever in the control room (where only one door is obvious and the other door is hidden behind a

partition in the supervisor's office). In the turbine hall, there are many places where you can stand and not see the signs due to obstructions. I will follow up on this item here at headquarters and with Pat and Ken.

While in the plant, met Mark Marchi, Ken Evers and Tom Webb. Also met several operators and other personnel.

Had final discussions with Pat and Ken in office at lunchtime. Suggested I visit again in late June or early July to assist them with more specific items such as planned inspections. Timing would be good to help Ken, as Pat will be out for much of that time. I will follow up.

Left Kewaunee plant approximately 12:30 CT, arrived DCA 9:30 ET, after several flight delays. Continued review of NUREG/CR-1250.

Original Signed by:

Allen G. Hansen, Project Engineer  
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