

CATEGORY 1

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 SMITH,G.O. Washington Public Power Supply System
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SUBJECT: Provides 1995 Dose Assessment exposure info requested by NRC
 in 960815 ltr.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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September 10, 1996
GO2-96-180

Docket No. 50-397

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Subject: **WNP-2, OPERATING LICENSE NPF-21
1995 DOSE ASSESSMENT INFORMATION**

Reference: Letter dated August 15, 1996, TG Colburn (NRC) to JV Parrish (SS), "1995 Dose Assessment Information For The Washington Public Power Supply System (WPPSS) Nuclear Project No. 2"

In the referenced letter the staff requested that the Supply System provide exposure information for 1995. Attached is the requested information. If the staff will continue to require this information on an annual basis as it has in the past, we request the NRC evaluate Codifying this need, as it has other routine periodic information needs, as a reporting requirement.

Should you have any questions or desire additional information regarding this matter, please contact L. C. Fernandez (509) 377-4147.

Sincerely,



G.O. Smith
Plant General Manager
Mail Drop 927M

Attachment

DAS/bk

cc: LJ Callan - NRC RIV
KE Perkins, Jr. - NRC RIV, Walnut Creek Field Office
NS Reynolds - Winston & Strawn
TG Colburn - NRR
DL Williams - BPA/399 (w/o)
NRC Sr. Resident Inspector - 927N

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ATTACHMENT

1. 1995 Refueling Outage Days - 49
2. 1995 Refueling Outage Exposure - 297 man-rem
3. 1996 projected exposure (as of 8/29/96) - 368 man-rem
4. ALARA Features Implemented
 - a. By flooding the undervessel sub-pile floor and sumps with at least 2 ft. of water above the plane of the Floor Drains Radioactive (FDR) sump, the dose rate gradient between the carousel and the shoot-out steel was increased. Dose rates in the squatting position were a factor of 1.8 to 2.0 lower than at head level. Where possible, work was performed low on the carousel.
 - b. Flushing of hotspots on the Reactor Water Cleanup (RWCU), Reactor Feedwater (RFW), and Residual Heat Removal (RHR) systems was successful. The RHR sensor line was reduced from 300 Rem/hr to background (400 mrem/hr) from Reactor Recirculation (RRC) "A" suction line. RWCU-V-101/103 was reduced from 60 Rem/hr to 7 Rem/hr and the RFW low point drains were reduced from 20 Rem/hr to < 1 Rem/hr.
 - c. Permanent shielding installation around the RRC "B" loop on 501' and the RRC 512' risers in the drywell was completed. Similar work was performed on RRC loop "A" during R-11 (1996). Once installed, this shielding mitigates the need to install and remove temporary shielding on the 501' and 512' elevations each outage. This equates to more than half the total temporary shielding normally installed in the drywell.
 - d. Work Matrix Planning was used in sequencing and interfacing drywell work during the initial planning/scheduling phase for R-10. This method of planning allows a visual overview of the drywell outage scope and indicates where work interferences and conflicts are probable, where detail in planning needs to be increased, where redundant work can be eliminated, and where scheduling considerations need improving.
 - e. The undervessel shoot-out steel was removed selectively for the first time in R-10.
 - f. Use of remote readout dosimetry (WRM) and video cameras were used to monitor work in High-High Radiation areas. This saved HP exposure throughout the outage.

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- g. Surgeons gloves are being used for detailed instrument and controls and electrical work. By increasing dexterity for connector replacements and splicing of wire, an estimated time reduction of 15% was achieved.
 - h. Whenever possible, insulation removed for support of drywell work is stored in canvas bags near the work location. This reduces the transit time for transporting the insulation to a central storage location. Also, insulation damage is reduced.
 - i. A new index tool for the NA-250 LPRM dry-tube assembly now mitigates the need for removing shoot-out steel for positioning the cruciform assembly between the fuel assemblies. All LPRM indexing can be performed from just above the plane of the shoot-out steel. This saved an estimated 4 Rem in total exposure.
5. The following is a list of jobs resulting in > 10 man-rem exposure in R10 (1995)
- | | |
|---------------------------------------------|-----------------|
| Reactor Disassembly | - 10.25 man-rem |
| Reactor Reassembly | - 14.25 man-rem |
| Drywell Shielding Installation/Removal | - 29.95 man-rem |
| RWCU Chemical Decontamination | - 20.59 man-rem |
| Main Steam Relief Valve Removal/Replacement | - 14.83 man-rem |
| Inservice Inspection/Errorsion-Corrosion | - 19.49 man-rem |