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Docket 50-320

Mr. John J. Barton Acting Director, TMI-2 GPU Nuclear Corporation P.O. Box 480 Middletown, PA 17057

Dear Mr. Barton:

Subject: Recovery Operations Plan Change No. 12

(Reactor Coolant System Chemistry Specifications Change)

Reference: Letter from J. Barton to B. Snyder, same subject, dated

April 15, 1982, 4400-82-L-0054

We have reviewed the referenced letter which transmits your Recovery Operations Plan Change Request Number 14 for reactor coolant system (RCS) chemistry specifications. This change request deletes the dissolved oxygen and dissolved hydrogen specifications, and establishes a RCS chloride specification of 5 ppm in the Recovery Operations Plan (ROP).

The staff's evaluation of these changes, with the supporting information on RCS sulphur analysis and the metallurgical analysis on materials used in the submerged demineralizer system, has concluded that no significant increase in RCS system corrosion should occur, nor loss of system integrity. We therefore, approve your change request and are enclosing the amended sections (ROP Change No. 12) to the Plan.

This ROP change is required both for the timely processing of the reactor coolant system water through the submerged demineralizer system and the partial RCS drain down for the remote visual reactor examination through a control rod drive mechanism. We understand your staff is taking precautionary steps (i.e., prior flushing of SDS and reactor coolant bleed tanks) to insure that present RCS chloride concentration (approximately 0.8 ppm Cl) is not intentionally raised to the 5 ppm maximum limit and that processed makeup water (returned to the RCS via RCBT "A") will be inerted with nitrogen to insure dissolved oxygen is as low as practicable during processing. These are beneficial precautionary steps. Additionally, we suggest a contingency plan be considered to remove chlorides from the RCS or makeup water in the remote case where significant chlorides might leach from previously contaminated system components.

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Mr. John J. Barton

The deletion of the RCS dissolved hydrogen (formerly maintained above 5 cc/Kg) as an oxygen scavenger is consistent with the dissolved oxygen change. Currently the RCS dissolved H₂ is 9 cc/Kg. While the staff is approving deletion of the dissolved H₂ from the ROP, prior to actual RCS depressurization/reactor vessel opening, the RCS dissolved H₂ should, by procedure, be lowered to less then 5 cc/Kg to insure no combustible gas mixtures form.

Original signed by

Lake H. Barrett Deputy Program Director TMI Program Office

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cc: See Service Distribution List

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4.4 REACTOR COOLANT SYSTEM

REACTOR COOLANT LOOPS

4.4.1 Verify that surveillance of the Reactor Coolant System is being performed in accordance with procedures approved pursuant to Technical Specification 6.8.2.

SAFETY VALVES

4.4.3 Not applicable.

4.4.9 PRESSURE/TEMPERATURE LIMITS

REACTOR COOLANT SYSTEM

4.4.9.1.1 The Reactor Coolant Sytem pressure and temperature shall be determined to be within the limits at least once per 12 hours.

4.4.9.1.2 Deleted.

4.4.9.1.3 Deleted.

4.4.9.1.4 The pH of the reactor coolant shall be determined to be greater than or equal to 7.5 at least once per 7 days.

4.4.9.1.4 The Chloride concentration in the reactor coolant shall be determined to be less than or equal to 5 ppm at least once per 7 days.

3/4.4 REACTOR COOLANT SYSTEM

BASES

3/4.4.1 REFCTOR CODLANT LOOPS

Several alternative methods are available for removal of reactor decay heat. These methods include use of the Mini Decay Heat Removal System, the "Loss to Ambient" cooling mode, and operation of the Reactor Coolant System in the natural circulation mode with heat rejection via the long term "B" steam generator cooling mode. Any one of these cooling methods provides adequate cooling of the reactor and each method is available for decay heat removal. Procedures have been prepared and approved for use of these various cooling methods.

3/4.4.3 SAFETY VALVES

The pressurizer code safety valves operate to prevent the RCS from being pressurized above its Safety Limit of 2750 psig. Each safety valve is designed to relieve 348,072 lbs per hour of saturated steam at the valve's setpoint.

3/4.4.9 PRESSURE/TEMPERATURE LIMIT

The RCS pressure and temperature will be controlled in accordance with approved procedures to prevent a nonductile failure of the RCS while at the same time permitting the RCS pressure to be maintained at a sufficiently high value to permit operation of the reactor coolant pumps.

Reactor coolant chemistry surveillance requirements are included in the Recovery Operations Plan. These requirements provide assurance that localized 'corrosion or pitting in crevice areas, which could tend to promote stress corrosion cracking in heat affected zones of welds in stainless steel piping or components, will not occur.

TMI-2 SERVICE LIST r. L. King, Acting Manager Side Operations TMI-2 PU Nuclear Corporation .O. Box 480 iddletown, PA 17057 Earl B. Hoffman John E. Minnich, Chairperson Dauphin County Commissioner Dauphin County Courthouse Dauphin Co. Board of Commissioners Dauphin County Courthouse Front and Market Street Front and Market Streets Harrisburg, PA 17101 Harrisburg, PA 17101 r. J.E. Larson, Supervisor MI Unit 2 Licensing PU Nuclear Corporation .O. Box 480 iddletown, PA 17057 Government Publications Section Mr. William A. Lochstet State of Library of Pennsylvania 119 E. Aaron Drive Box 1601 Education Building State College, PA 16801 Harrisburg; PA 17127 Robert Q. Pollard . Chesapeak Energy Alliance Dr. Edward O. Swartz r. J.B. Liberman, Esquire erlack, Israels, Liberman 6 Broadway ew York, NY 10004 Board of Supervisors 609 Montpelier Street Londonderry Township Baltimore, ND 21218 RFD #1 Geyers Church Road Middletown, PA 17057 Chauncey Kepford Judith H. Johnsrud ir. G.F. Trowbridge, Esquira haw, Pittman, Potts & Trowbridge 800 M Street, N.W. ashington, DC 20036 Environmental Coalition on Muclear Power U.S. Environmental Protection Agency Region III Office 433 Orlando Avenue State College, PA 16801 ATTN: EIS Coordinator Curtis Building (Sixth Floor) 6th and Walnut Streets Philadelphia, PA 19106 Ms. Frieda Berryhill, Chairperson Coalition for Nuclear Power Plant F. Walter H. Jordan 181 W. Outer Drive Dak Ridge, TN 37830 Postponement 2610 Grendon Drive Dauphin County Office Emergency Wilmington, DE 19808 Preparedness Court House, Room 8 or. Linda W. Little 0000 Hermitage Drive Maleigh, NC 27612 Front and Market Streets Holly S. Keck Anti-Huclear Group Representing York Harrisburg, PA 17101 245 W. Philadelphia Street Department of Environmental Resources York, PA 17404 Karin W. Carter . Assistant Attorney General ATTN: Director, Office of Radiological Health John Levin, Esquire Pennsylvania Public Utilities Commission 05 Executive House P.O. Box 2063 0. 80x 2357 Harrisburg, PA 17120 Harrisburg, PA 17105 P.O. Box 3265 . Harrisburg, PA 17120 Governor's Office of State donorable Mark Cohen 12 E-3 Main Capital Building Planning and Development Jordan D. Cunningham, Esquire ATTN: Coordinator, Pennsylvania Fox. Farr and Cunningham 2320 N. Second Street tarrisburg. PA 17120 Clearinghouse P.O. Box 1323 Harrisburg, PA 17110 Illyn Weiss, Esquire Harrisburg, PA 17120 heldon, Harmon, Roisman & Weiss 725 1 Street, H.W., Suite 506 Washington, DC 20006 Ivan W. Smith, Esquire Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Hrs. Rhoda D. Carr 1402 Marene Drive Harrisburg, PA 17109 dr. Steven C. Sholly 304 S. Market Street Washington, DC 20555 Mr. Richard Roberts Atomic Safety and Licensing Board Panel Mechanicsburg, PA 17055 The Patriot U.S. Nuclear Regulatory Commission 812 Market Street dr. Thomas Gerusky Washington, DC 20555 . Harrisburg, PA 17105 Bureau of Radiation Protection Atomic Safety and Licensing Appeal Panel P.O. Box 2063 Mr. Robert B. Borsum U.S. Nuclear Regulatory Commission Washington, DC 20555 Harrisburg, PA 17120 Babcock & Wilcox Nuclear Power Generation Division dr. Marvin I. Lewis 5504 Bradford Terrace Suite 420, 7735 Old Georgetown Road Virginia Southard, Chairman Bethesda, MD 20014 Citizens for a Safe Environment Philadelphia, PA 19149 264 Walton Street Ms. Judith A. Dorsey Lemoyne, PA 17043 ds. Jane Lee 1315 Walnut Street R.D. 3, Box 3521 **Suite 1632** Etters, PA 17319 John F. Wolf, Esq., Chairman Philadelphia, PA 19107 Administrative Judge 3409 Shepherd Street Walter W. Cohen, Consumer Advocate U.S. Department of Energy Chevy Chase, HD 20015 Department of Justice P.O. Box 88 Strawberry Square, 14th Floor Middletown, PA 17057-0311 Harrisburg, PA 17127 Dr. Oscar H. Paris, Administrative Judge Robert L. Knupp, Esquire Assistant Solicitor Atomic Safety and Licensing Board Panel ks. Marjorie M. Aamodt U.S. Nuclear Regulatory Commission R. D. 45 Knupp and Andrews Washington, DC 20555 Coatesville, PA 19320 P.O. Box P 407 N. Front Street is. Karen Sheldon theldon, Harmon, Roisman & Weiss 1725 I Street, M.W., Suite 506 Washington, DC 20006 Mr. Frederick J. Shon, Administrative Harrisburg, PA 17108 Atomic Safety and Licensing Board Panel Chief, Docketing & Service Branch U.S. Nuclear Regulatory Commission U.S. Nuclear Regulatory Commission ATTN: Secretary Washington, DC 20555