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Downers Grove, Illinois 60515

September 17, 1992

Dr. Thomas E. Murley, Director  
Office of Nuclear Reactor Regulation  
Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Document Control Desk

Subject: Dresden Nuclear Power Station Unit 2  
Intergranular Stress Corrosion Cracking (IGSCC) Program  
(Generic Letter 88-01) Refuel Outage Examination Plan  
NRC Docket No. 50-237

Dear Dr. Murley:

Attachment A to this letter addresses the examination requirements of Generic Letter 88-01 and other planned IGSCC related activities for the upcoming refueling outage for Dresden Unit 2 (DR2R13). The D2R13 refueling outage is currently scheduled to begin during January, 1993.

Dresden Station plans to perform IGSCC examinations per the requirements outlined in Attachment A. Therefore, CECO requests NRR concurrence that the proposed examination plan is acceptable. Please provide your response by November 20, 1992 in order to allow the station suitable time to finalize their plans for the examination prior to the refueling outage.

Please contact this office should further information be required.

Sincerely,

Peter L. Piet  
Nuclear Licensing Administrator

Attachment: A - Dresden Unit 2 Plan for IGSCC Related Activities, D2R13 (Winter 1993) Refueling Outage

cc: A. B. Davis, Regional Administrator - RIII  
B. L. Siegel, Project Manager - NRR  
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## ATTACHMENT A

### DRESDEN UNIT 2 PLAN FOR IGSCC RELATED ACTIVITIES D2R13 (WINTER 1993) REFUELING OUTAGE

1. Table 1 for Dresden Unit 2 provides the inspection plan for the D2R13 refueling outage to address Intergranular Stress Corrosion Cracking (IGSCC) concerns. The plan follows the guidelines of Generic Letter (GL) 88-01. It also addresses the CECo commitment to NRC Region III regarding the re-examination of 28" Recirculation weld PS1-2/201-1.
2. Ultrasonic examination of austenitic stainless steel piping welds will be performed by Level II or III examiners qualified by EPRI after September 10, 1985. Examination of overlay repaired welds will be performed by Level II or III examiners qualified by EPRI to examine overlay repaired welds using the EPRI technique. Automated ultrasonic examination may be utilized on both piping and overlay repaired welds.
3. If IGSCC flaw indications are identified, they will be resolved consistent with the intent of GL 88-01. If repairs are required, weld overlays may be utilized which will take into account flaw characterization, depth, length, and material toughness.
4. The GL 88-01 IGSCC examination weld sample presented in Table 1 is based on the estimated weld population after the implementation of the planned piping modifications during D2R13. If the estimated weld population is changed for any reasons, the GL 88-01 examination sample will be adjusted accordingly.

The following are two (2) planned stainless steel piping modifications to be implemented during the upcoming D2R13 refueling outage and the resulting changes to the applicable weld population.

- a. The removal of the CRD Return piping inside the containment and capping of the CRD Return nozzle (Modification No. M 12-2-91-003). As a result, there will be no welds in the CRD Return line that are subject to the examination requirements of GL 88-01.
- b. The installation of corrosion resistant cladding on the ID of inaccessible welds (3 welds total) located inside the Isolation Condenser (ISCO) Return and ISCO Steam Supply containment penetrations (Modification No. M 12-2-91-002). Following IGSCC category changes will result from these modifications:

- \* Three (3) inaccessible Category G welds will become inaccessible Category A welds.
  - \* The removal of one (1) weld in each 14" ISCO Steam Supply and 12" ISCO Return line.
  - \* Two (2) Category C welds in each 14" ISCO Steam Supply and 12" ISCO Return line will become Category A welds.
5. Table 1 was also revised to reflect the re-classification of three (3) Category C welds to Category A. They are the HPCI Nozzle-to-Safe End weld, HPCI Safe End-to-Elbow weld, and Isolation Condenser Steam Supply Nozzle-to-Safe End weld. Their safe ends were replaced with low carbon stainless steel in 1976.

TABLE 1  
DRESDEN UNIT 2  
GENERIC LETTER 88-01 INSPECTION PROGRAM  
(Fall 1993 Outage - D2R13)

SYSTEM	SIZE	TOTAL	CATEGORIES							REMARKS
			A	B	C	D	E	F	G	
RECIRCULATION										
Outlets	28"	31	2	0	10	15	3	1	0	Category A welds are Cast Elbow-to-Pump welds  2 Category E welds are unflawed - overlayed for load leveling (welds PD1-D15 and PD6-D19).  1 inaccessible Category A weld. Cat G wlds exam in D2R12 using improper cal blk Inaccessible welds: 2 Cat. A and 1 Cat. G  1 inaccessible Cat G weld. 1 Cat E weld is unflawed - overlayed in anticipation of IGSCC (weld 8-16)  Line removed under MOD 12-2-91-003
Noz-SE	28"	2	0	0	1	1	0	0	0	
Header	22"	20	8	0	2	8	2	0	0	
Risers	12"	40	0	0	8	11	21	0	0	
Noz-SE	12"	10	0	0	7	3	0	0	0	
Bypass	4"	28	7	0	0	21	0	0	0	
RHR										
LPCI	16"	25	0	0	20	5	0	0	0	
SDC	16"	8	2	0	0	5	1	0	0	
ISOLATION CONDENSER										
Supply	14"	25	4	0	17	4	0	0	0	
Supply	12"	17	0	0	15	0	0	0	2	
Return	12"	14	4	0	9	0	0	0	1	
HPCI STEAM SUPPLY	14"	2	2	0	0	0	0	0	0	
CORE SPRAY	10"	14	14	0	0	0	0	0	0	
JET PUMP INST.	12"	4	0	0	2	2	0	0	0	
	8"	2	0	0	1	1	0	0	0	
	4"	4	0	0	2	2	0	0	0	
RWCU	8"	28	17	0	0	0	10	0	1	
CRD BOTTOM PENETRATION CAP	7.5"	8	8	0	0	0	0	0	0	
CRD	4"	0	0	0	0	0	0	0	0	
N-18 A,B NOZZLES	6"	4	4	0	0	0	0	0	0	
HEAD VENT	4"	3	2	0	0	1	0	0	0	
POPULATION GL 88-01 MIN REQUIREMENTS		289	74 4.16%	0	94 (1)	79 (2)	37 (1)	1 100%	4 100%	Estimated weld population after modifications M 12-2-91-002 and M 12-2-91-003
D2R13 Examination Sample		64	3	0	45	0	13	1	2	

NOTES:

- (1) All welds that were not examined in D2R12. Also, must examine weld PS1-2/201-1.
- (2) All welds were examined in D2R12.