



**Committee to Review
Generic Requirements (CRGR) Brief**
Thursday, October 11, 2001
2:00 p.m. - 3:00 p.m.
Room: T-2B1

Purpose: 1) To discuss and focus on the results of the staff's Bulletin 2001-01, "Circumferential Cracking of Reactor Pressure Vessel Head Penetration Nozzles," response reviews for the high and moderate susceptibility plants
2) To discuss the basis for the next Regulatory Action to be taken

Success: CRGR members understand the results of the staff's review and the next Regulatory Action(s)

Introduction:	Larry Burkhart	5 mins.
Discussion of Reviews:	Allen Hiser	20 mins.
Discussion of Next Regulatory Action(s):	Mark Reinhart	20 mins.

PROCESS/STATUS/SCHEDULE

Action Items Completed

Bulletin Issued - August 3, 2001

Bulletin Responses Received - September 4, 2001

Preliminary Review of Responses Complete - September 12, 2001

- NRR & RES - 7 Submittals
 - ▶ Plants that have found Cracking & Leakage (5 plants) - Bin 1
 - ▶ Plants with High Susceptibility, < 5 EFPY of Oconee 3 (7 plants) - Bin 2
- NRR/DLPM PM "Tiger" Team - 37 Submittals
 - ▶ Plants with Moderate Susceptibility, b/w 5 & 30 EFPY of Oconee 3 (32 plants) - Bin 3
 - ▶ Plants with Low Susceptibility, > 30 EFPY of Oconee 3 (25 plants) - Bin 4

Temporary Instruction (TI) Issued to Regions - September 20, 2001

Ex

PLANTS WITH CRACKING/LEAKAGE HISTORY (BIN 1) AND HIGH SUSCEPTIBILITY PLANTS (BIN 2)

Plants	Last Inspection		Next Inspection				CCDP* (IPE)	Response Acceptable ?
	Date	Method	Date		Method			
Oconee 1	11/2000	Qual. Visual - 100%	03/2002	OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	YES
Oconee 2	04/2001	Qual. Visual - 100%		OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	YES
Oconee 3	2/2001	Qual. Visual - 100%	11/2001	OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	YES
ANO-1	03/2001	Qual. Visual - 100%		OK	Qual. Visual - 100%	OK	3E-3	YES
Surry 1	Spr 2000	***	10/2001	OK	Qual. Visual - 100%	OK	5.3E-3	YES **
TMI-1	09/1999	Eff. Visual - 100%	10/2001	OK	Qual. Visual - 100%	OK	7.5E-3	YES
D.C. Cook 2	09/1994	ID NDE - 91%	1/19/2002	?	Remote Visual & ECT/UT	OK	4.7E-3	?
North Anna 1	02/1996	ID NDE - 31%	09/2001	OK	Qual. Visual (100%) & ECT/UT ★	OK ★	6.6E-3	YES ★
Robinson	04/2001	Qual. Visual - 100%		OK	Qual. Visual - 100% ★	OK ★	2E-2	YES ★
Davis-Besse	03/2000	Visual - Partial	04/2002	NO	Qual. Visual - 100%	OK	6.9E-3	NO
North Anna 2	Spr 2001	***		NO	Qual. Visual - 100% ****	NO	6.6E-3	NO ****
Surry 2	Fall 2000	***	03/2002	NO	Qual. Visual - 100%	OK	5.3E-3	NO **

* Conditional core damage probability.

** Licensee has committed to qualified visual examination per conference call (September 21, 2001).

*** Prior inspection at last RFO, in accordance with GL 88-05 & GL 97-01.

**** Licensee may or does not have sufficient information to demonstrate that last inspection was a qualified visual examination.

★ Pending licensee's supplemental response.

As of 10/10/01

PLANTS HAVING MODERATE SUSCEPTIBILITY TO PWSCC AS OF 10/11/2001

Plant	Ranking (EPFY)	Next Inspection			Response Acceptable?
		Date	Method		
Beaver Valley 1	11.5	Sept. 2001	Eff. Visual in Sept. 2001	OK	YES
Beaver Valley 2	16.5	Feb. 2002	Eff. Visual in Feb. 2002	OK	YES
Calvert Cliffs 1	9.8	Feb. 2002	Eff. Visual & Qual. Vol., Feb. 2002	OK	YES
Calvert Cliffs 2	10.2	[REDACTED]	Eff. Visual & Qual. Vol., [REDACTED]	OK	YES
Crystal River 3	5.9	Oct. 2001	Eff. Visual in Fall 2001	OK	YES
Diablo Canyon 1	20.8	May 2002	Eff. Visual in May 2002	OK	YES
Diablo Canyon 2	16.1	[REDACTED]	Eff. Visual in [REDACTED]	OK	YES
Farley 1	6.9	Oct. 2001	Eff. Visual in Oct. 2001	OK	YES
Farley 2	8.3	[REDACTED]	Eff. Visual or Qual Vol., [REDACTED]	OK★	YES★
Fort Calhoun	17.9	[REDACTED]	Eff. Visual in Spring 2002	OK★	YES★
Kewaunee	21.9	Oct. 2001	Eff. Visual in Fall 2001	OK	YES
Point Beach 1	11.5	[REDACTED]	Eff. Visual in [REDACTED]	OK	YES
Point Beach 2	9.6	April 2002	Eff. Visual in Spring 2002	OK	YES
Prairie Island 1	26.7	[REDACTED]	Eff. Visual in [REDACTED]	OK	YES
Prairie Island 2	26.8	Feb. 2002	Eff. Visual in Feb. 2002	OK	YES
Salem 1	13.8	[REDACTED]	Eff. Visual in [REDACTED]	OK	YES
Salem 2	17.4	Apr. 2002	Eff. Visual in Apr. 2002	OK	YES
San Onofre 2	10.7	May 2002	Eff. Visual or Qual Vol., May 2002	OK	YES
San Onofre 3	10.8	Jan. 2002	Eff. Visual or Qual Vol., [REDACTED]	OK	YES
St. Lucie 1	10.3	[REDACTED]	Eff. Visual in [REDACTED]	OK	YES
Turkey Point 3	6.3	Oct. 2001	Eff. Visual in October 2001	OK	YES
Turkey Point 4	6.4	Mar. 2002	Eff. Visual in Spring 2002	OK	YES
Waterford 3	7.8	Mar. 2002	Eff. Visual in Spring 2002	OK	YES
Ginna	15.0	Mar. 2002	Not Specified (notify 1/02)	NO	?
Millstone 2	14.3	Feb. 2002	Not Specified (notify 1/02)	NO	?
ANO-2	17.1	April 2002	Surface or Vol. of 25% in Spring 2002	NO	NO
Indian Point 2	26.6	[REDACTED]	GLs 88-05 & 97-01	NO	NO
Indian Point 3	14.5	[REDACTED]	GLs 88-05 & 97-01	NO	NO
Palo Verde 1	17.0	[REDACTED]	None (Vol. in [REDACTED])	NO	NO
Palo Verde 2	17.7	May 2002	None (Vol. in [REDACTED])	NO	NO
Palo Verde 3	17.3	Sept. 2001	None (Vol. in [REDACTED])	NO	NO
St. Lucie 2	11.3	Nov. 2001	Partial Visual (Eff. Visual in [REDACTED])	NO	NO

* Licensee proposed to remove one panel of insulation, and to look under the shroud to examine as many CRDMs as possible. St. Lucie Unit 2 has 91 CRDMs

★ Pending licensee's supplemental response

NEXT REGULATORY ACTION

- **Adequate Protection**
 - ▶ Special Circumstance
 - ▶ Risk
 - ▶ Deterministic Standards

- **Regulatory Action**
 - ▶ Phone call with Licensee
 - ▶ Meeting with Licensee
 - ▶ Implement Regulatory Action

PERFORMANCE GOALS

- **Maintain Safety**
 - ▶ Purpose of the bulletin is to collect information to determine if additional regulatory action is necessary
 - ▶ Information to date provides a sufficient technical basis to show that conditions adverse to quality are being managed for most, but not all plants in the short-term
 - ▶ Additional cracking should be anticipated - long-term management needed
- **Increase Public Confidence**
 - ▶ Participation at public meetings via telephone
 - ▶ Maintaining current information on Bulletin 2001-01 & Alloy 600 Web Sites
 - ▶ Disciplined and timely reviews of plant-specific responses and regulatory action(s)
- **Make NRC Activities and Decisions More Effective, Efficient, and Realistic**
 - ▶ Reviews prioritized based on susceptibility groupings and plant outage schedules
 - ▶ Use of Risk Insights
- **Reduce Unnecessary Regulatory Burden**
 - ▶ Information requested in the bulletin was minimized
 - ▶ Stakeholder meetings on resolution of issue (Short- and Long-term)
 - ▶ Inspection, Assessment, and Repair methods must be developed to manage this issue

STEPS TO SUPPORT REGULATORY ACTION

- **Brief NRR Leadership Team - 9/20/01 (Complete)**
- **Brief NRR Executive Team - 9/26/01 (Complete)**
- **NRR Management Phone Calls w/ Licensees' - 9/28/01 (Complete)**
 - ▶ **Robinson 2**
 - ▶ **Davis-Besse**
 - ▶ **North Anna 2**
 - ▶ **Surry 2**
- **Brief Executive Director for Operations - 10/2/01 (Complete)**
- **Brief Commission Technical Assistants - 10/3/01 (Complete)**

- **NRR Management Phone Calls w/ Moderate Susceptibility Plant Licensees - 10/9/01 (Complete)**
 - ▶ **Fort Calhoun**
 - ▶ **Ginna**
 - ▶ **Millstone**
 - ▶ **Farley 2**
 - ▶ **ANO-2**
 - ▶ **IP-2 and 3**

- **Brief Committee to Review Generic Requirements - 10/11/01**