



STATUS OF NRC STAFF REVIEW

OF FENOC'S BULLETIN 2001-01 RESPONSE FOR
DAVIS-BESSE

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- Brief for the Commissioners' TAs
 - November 30, 2001
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B-176



AGENDA FOR DISCUSSION

- Purpose

- ▶ To discuss the results of the staff's ongoing assessment of FENOC's responses to Bulletin 2001-01 for Davis-Besse
- ▶ To discuss the change in the staff's decision regarding issuance of an Order

- Success

- ▶ Commissioners' TAs understand the basis for the staff's decisions regarding responses to Bulletin 2001-01 for Davis-Besse

- Introduction and discussion of changes - Larry Burkhart (5 minutes)

- Discussion of status of staff's review - Jack Strosnider and Rich Barrett (15 minutes)



CHANGE IN LICENSEE'S PLANS/COMMITMENTS

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- The Licensee proposed changing its commitments to include
 - ▶ Commencing its refueling outage on February 16, 2002, vice March 31, 2002,
 - ▶ Perform a qualified visual inspection of 100% of the VHP nozzles and undertaking NDE of those nozzles that have indications of cracking,
 - ▶ Characterizing any cracks that are identified in VHP nozzles,
 - ▶ Operating at a lower RCS hot leg temperature to reduce the head temperature effects on crack initiation and growth,
 - ▶ Maximizing the availability of the plant's redundant critical safety systems until shutdown, and
 - ▶ Providing increased human factors reliability through additional training, personnel, etc.
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RISK ASSESSMENTS*

	Base Scenario	Alternate Scenario**
IE Freq. (/ry)	4.0E-02	2.0E-02
CCDP (/ry)	2.7E-03	2.0E-03
Delta CDF (/ry)	1E-04	4E-05
LERF (/ry)	1E-06	4E-07
Delta CDF (12/31/01)(/ry)	1E-05	3E-06
Delta CDF (3/31/02)(/ry)	4E-05	
Delta CDF (2/16/02)(/ry)		8E-06

*Risk numbers are approximate due to the various uncertainties associated with this issue.

**Includes some credit for past inspections, compensatory actions to reduce CCDP, and shortened duration of operation



RISK-INFORMED DECISIONMAKING GUIDELINES

- RG 1.174
 - ▶ Intended for licensing basis changes (permanent changes)
 - Δ CDF less than $1E-06/ry$: very small changes are allowed with tracking of cumulative impacts on CDF
 - Δ CDF between $1E-06/ry$ and $1E-05/ry$: small changes are allowed with tracking of cumulative impacts on CDF
 - Δ CDF $> 1E-05/ry$ are not normally allowed

- RG 1.182
 - ▶ Intended for managing risk associated with maintenance activities (short-duration)
 - ICDP $< 1E-06$ and ILERP $1E-07$: normal work controls apply
 - ICDP between $1E-06$ and $1E-05$ or ILERP between $1E-07$ and $1E-06$
 - Assess non-quantifiable factors
 - Establish risk management actions
 - ICDP $> 1E-05$ or ILERP $> 1E-06$
 - Configuration should not normally be entered voluntarily



RG 1.174 SAFETY PRINCIPLES

- Current Regulations are met
 - ▶ It is likely that, if inspections were performed today, the current regulations would not be met (TS requirements and GDC)
 - Defense-in-depth philosophy is maintained
 - ▶ It is likely that one of 3 barriers is degraded
 - ▶ However, Davis-Besse has a large, dry containment (licensee states that conditional containment failure probability is $1.5E-03$)
 - Sufficient safety margins are maintained
 - ▶ It is likely that safety margins are reduced
 - Only a small increase in CDF results
 - ▶ Δ CDF (assuming operation until 2/16/02 and crediting comp. actions) is approximately $8E-06/ry$
 - ▶ Baseline CDF is $6.6E-05/ry$ (IPE)
 - The basis of risk measurement is monitored using performance measurement strategies
 - ▶ Will not occur until inspection is performed
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