



Containment Coatings Work Scope 2EOC21

Oconee Nuclear Station August 8, 2005

1

Enclosure 2



ONS Containment Coatings Work Scope - 2EOC21

- | | |
|------------------------------------|-------------|
| ■ Introduction | Dave Baxter |
| ■ Objectives | Dave Baxter |
| ■ Recent Experience on Unit 2 | Andy Wells |
| ■ Unit 2's Current Condition | Andy Wells |
| ■ 2EOC21 Containment Coating Plans | Andy Wells |
| ■ Basis For 2EOC21 Plans | Andy Wells |
| ■ Conclusions | Dave Baxter |
| ■ Questions / Wrap Up | All |



ONS Containment Coatings Work Scope - 2EOC21 Introduction

■ Duke Participants

- Dave Baxter
Oconee Engineering Manager
- Steve Capps
Mechanical/Civil Engineering
Manager
- Larry Nicholson
Safety Assurance Manager
- Andy Wells
Civil Engineering Supervisor
- Graham Davenport
Regulatory Compliance Manager
- Mel Arey
Material, Piping, & Seismic
Engineering Supervisor
- Brant Elrod
Senior Civil Engineer
- Mike Cromer
Maintenance Civil Job Sponsor
- Russ Oakley
Regulatory Compliance Lead
- Jon Cavallo
Coating Consultant



ONS Containment Coatings Work Scope – 2EOC21 Objectives

- Outline 2EOC21 outage containment coatings work plan
- Explain basis for planned work scope
- Receive feedback/answer questions from NRC



ONS Containment Coatings Work Scope – 2EOC21 Recent Experience on Unit 2

- Coating inspection at beginning of 2EOC20 (Spring 2004) identified a higher than expected amount of coating degradation.
- Initiated a detailed effort to quantify level of degradation. As-found amount estimated to be approximately 4000 ft².
- Majority of increased delamination was on the Liner Plate in “accessible” areas - above 3rd and 4th floor grating levels (below Polar Crane Ring Girder).
- Action was taken during 2EOC20 to abate approximately 2750 ft² of delaminated coatings.



ONS Containment Coatings Work Scope – 2EOC21 Recent Experience on Unit 2

- An area of approximately 2000 ft² above the 3rd floor was stripped to base metal and recoated utilizing a newly purchased sealed asbestos/lead vacuum system.
- Approximately 1450 ft² of delaminated coatings remained at end of 2EOC20 (post-ILRT).
- NRC resident inspection of containment coatings following maintenance activities during 2EOC20 resulted in no findings as documented in Inspection Report 2004-003.



ONS Containment Coatings Work Scope - 2EOC21 Unit 2's Current Condition

On-line entry performed on 5/31/05 determined the following:

	Delaminated Coating Estimated During 5/31/2005 Power Entry (See Note below)	Delaminated Coating Documented in Final 2EOC20 Coating Inspection Report
Total – “Accessible”	940 ft ²	250 ft ²
Total – “Inaccessible”	1410 ft ²	1207 ft ²
Combined Total	2350 ft ²	1457 ft ²

Note -- An additional Unit 2 power entry is currently scheduled in August to verify no significant changes have occurred since 5/31/05 power entry.



ONS Containment Coatings Work Scope - 2EOC21 Containment Coatings Plans

- Inspect containment coatings at beginning of outage per ONS Coatings Maintenance Program.
- Remove majority of degraded coatings in accessible areas (approximately 750 ft².) This includes Liner Plate from 4th floor to duct and accessible portion of Polar Crane & Polar Crane Ring Girder.
- Abate and reconstitute approximately 25% of 4th floor Liner Plate below duct (approx. 6000 ft²).
- Abate and reconstitute (with qualified coating system) one Core Flood Tank and Reactor Coolant Pump Motor to reduce quantity of unqualified coatings (approximately 1400 ft²).
- Evaluate degraded coatings in inaccessible areas (Dome), but no removal planned.



ONS Containment Coatings Work Scope - 2EOC21 Basis For 2EOC21 Plans

Installation of “Bigge” platform during 2EOC21 to remove delaminated coatings in Dome area is not warranted for the following reasons:

- Minimal change has occurred in the inaccessible areas' degradation amounts between 2EOC20 and 2EOC21. No significant changes from current amounts are expected in Cycle 22.
- Current work plans address areas where majority of increased delamination occurred.
- Reconstituted area on Liner Plate above the 4th floor significantly reduces potential for continued delamination in that area.



ONS Containment Coatings Work Scope - 2EOC21 Basis For 2EOC21 Plans

- Current plans will leave approximately 1600 ft² of degraded coating at end of 2EOC21. Total Service Level 1 coating surface area inside containment exceeds 250,000 ft². Amount degraded is less than 1% of the total.
- Actions taken by current work plan will meet GL 98-04 commitment to minimize degraded coatings that could detach during a LOCA.
- 2EOC21 work plan is consistent with the recent Bulletin 2003-01 RAI response.



ONS Containment Coatings Work Scope - 2EOC21 Basis For 2EOC21 Plans

- Projected amount of delaminated coatings remaining at end of 2EOC21 is only slightly larger than at the end of 2EOC20 (1457 ft²). Total potential coating debris at the end of 2EOC21 will be less than that at the end of 2EOC20.
- The amount of degraded coating in the inaccessible areas is minimal. Therefore, the nuclear safety benefit does not warrant the expense nor risk to personnel to remove these degraded coatings.



ONS Containment Coatings Work Scope - 2EOC21 Conclusions

- Areas where majority of delamination has occurred since 2EOC20 are being addressed.
- Significant area of degraded coating is being replaced on the Liner Plate.
- Amount of unqualified coatings is being reduced.



ONS Containment Coatings Work Scope - 2EOC21 Conclusions

- Use of Bigge platform is not justified by marginal improvement in overall risk.
- Though not directly part of the coatings plan or program, ONS plans for 2EOC21 include installation of new sump strainer. (Approximately 5000 ft² surface area.)
- 2EOC21 Containment coating work plans are comprehensive and meet regulatory commitments.



ONS Containment Coatings Work Scope - 2EOC21 Questions / Wrap-Up

- Questions?
- Action Items
- Concluding Comments