

Duke Power Company
 Oconee Nuclear Station
 11/29/01

ONS 3EOC-19 S/G Inspection Plans and Results

Initial Planned Inspection Scope

Bobbin Coil (0.510 dia. MF)	100% A-OTSG 14,521 Tubes 100% B-OTSG 14,845 Tubes
Lane and Wedge MRPC (0.460 dia. Plus Point)	Two Rows Around Sleeved Tubes 446 Tubes
MRPC Upper Tubesheet Roll (0.460 dia. Plus Point)	100% A-OTSG 14,246 Tubes 100% B-OTSG 14,599 Tubes
MRPC Re-rolls Upper Tubesheet (0.460 dia. Plus Point)	100% A-OTSG 123 Tubes 100% B-OTSG 251 Tubes
MRPC I-600 Plugs	100% A-OTSG 101 Plugs 100% B-OTSG 73 Plugs
Bobbin Sleeve Exam (0.410 dia.)	100% Sleeves A-OTSG 275 Sleeves 100% Sleeves B-OTSG 246 Sleeves
Sleeve Upper and Lower Rolls (0.400 dia Plus Point)	100% Sleeve Rolls A-OTSG 275 Sleeves 100% Sleeve Rolls B-OTSG 246 Sleeves
Kidney Region (Sludge Pile) (0.460 dia. Plus Point)	100% A-OTSG 2103 Tubes 100% B-OTSG 2139 Tubes
RPC Special Interest (0.460 dia. Plus Point)	4,060 Tubes

- 1) 100% Bobbin indications regardless of location
- 2) 100% of all dents regardless of size or location

Planned Scope Inspection Findings

Tubes Plugged Due to Defects

	<u>SG A</u>	<u>SG B</u>	
Re-Roll Transitions	4	22	
Freecspan Axial	107	25	
Impingement	23	19	
Dents (IGA, SCC)	1	5	
IGA	18	4	
Lane & Wedge, Other	12	6	
<u>Totals</u>	<u>165</u>	<u>81</u>	
In-Situ Pressure Tests	9	4	No Leakage Observed
Tubes Rerolled	12	14	

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TMI Issue Inspection Scope

Deplugged Tube Inspections - Total 108 (Incl 4 stab plugs for plug indications)

Tubes plugged with I-600 In upper and/or lower	A-OTSG	21 Tubes
	B-OTSG	14 Tubes
Tubes with original I-600 plugs replaced with I-690.	A-OTSG	34 Tubes
	B-OTSG	39 Tubes

Note: Tubes requiring lower plug removals (15) and tubes with welded plugs (16) were captured by stabilized plugs

TMI Issue Inspection Findings

Tubes found containing water

Tubes plugged with I-600 In upper and/or lower	A&B OTSG	9 Tubes out of 35 deplugged
		<i>Note: 1 Tube with 100% water verified throughwall defect</i>

Tubes with original I-600 Plugs replaced with I-690	A&B OTSG	13 Tubes out of 73 deplugged
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Water Level Distribution	Level < 50%	14 Tubes
	Level > 50%	8 Tubes (incl throughwall defect)

No tubes showed any signs of swelling using bobbin eddy current profilometry

No severed tube locations

100% Original Scope Bobbin showed no signs of adjacent tube wear

Final Plugged Tubes

	3A-OTSG	3B-OTSG
Previous Plugged Tube Totals	938	686
3EOC-19 Total Defects Plugged	165	81
3EOC-19 Plugged to Capture Locations	61	47
Total Plugged	1,164 (7.5%)	814 (5.2%)