Attachment 6

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EPRI

April 26, 2000

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U.S. Nuclear Regulatory Commission
Attention: Mary Pat Siemien
Washington, DC 20555-0001

Re: **Authorization to Reproduce A Copyrighted Publication**
EPRI Report Number TR107623, "Steam Generator Tube Integrity Risk Assessment, Volume 1, General Methodology"

Dear Ms. Siemien:

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Sincerely,

Carole Druhan
Manager, Intellectual Property Dept.
Business Operations and Support

Attachment 7

Eggcrate Axial Flaw In-Situ Test Data

ARKANSAS NUCLEAR ONE (UNIT TWO)
IN-SITU DATA

S/G	DATE	Tube R/L	Target Press.	Pressure	Flaw Type	Leakage	LEAKAGE Pressure(1)	Leak gal/min	Test Type	Pump	RPC Max Depth	RPC Length	Draw Max Depth	Draw Length
B	Nov-95	R8L116	1650	1650	01H Axial	Yes	1650	0.005	Local	Standard	86		92	1.02
B	Nov-95	R8L116	2850	2950	01H Axial	Yes	2950	0.4	Local	Standard				
B	Nov-95	R8L116	1650	1650	01H Axial	Yes	1650	0.32	Local	Standard				
B	Nov-95	R8L116	4700	4700	01H Axial	Yes	With Bladder		Local	Standard				
B	Nov-96	R16L60	1650	1750	01H Axial	Yes	1750	0.0095	Local	Standard	86	1.07		
B	Nov-96	R16L60	2850	2250	01H Axial	Yes	1900	0.4	Local	Standard				
B	Nov-96	R16L60	4950	3975	01H Axial	Yes	3975	burst	Local	Standard				
A	Nov-96	R70L98	1650	1650	01H Axial				LAB		81	1.39		
A	Nov-96	R70L98	2000	2000	01H Axial				LAB					
A	Nov-96	R70L98	2500	2500	01H Axial				LAB					
A	Nov-96	R70L98	2950	2950	01H Axial				LAB					
A	Nov-96	R70L98	4750	3250	01H Axial			Burst	LAB					
A	Nov-96	R16L56	1650	1650	01H Axial				LAB		78	1.18	90	1.16
A	Nov-96	R16L56	2000	2000	01H Axial				LAB					
A	Nov-96	R16L56	2500	2500	01H Axial				LAB					
A	Nov-96	R16L56	2950	3200	01H Axial			Burst	LAB					
A	Jun-97	R82L118	1600	1600	01H AXIAL	NO	0	0	Local	Standard	86	1.04	93	1.00
A	Jun-97	R82L118	2850	2850	01H AXIAL	NO	0	0	Local	Standard				
A	Jun-97	R82L118	4800	4700	01H AXIAL	YES	4700	0.15	Local	Standard				
A	Jun-97	R82L118	4800*	5000	01H AXIAL	BURST			Local	Standard				
B	May-97	R9L117	1600	1650	01H AXIAL	NO	0	0	Local	Standard	90	1.06	90	0.45
B	May-97	R9L117	2850	2900	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R9L117	4800	4900	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R11L129	1600	1650	01H AXIAL	NO	0	0	Local	Standard	89	0.85	78	0.3
B	May-97	R11L129	2850	2900	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R11L129	4800	4850	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R34L70	1600	1650	01H AXIAL	NO	0	0	Local	Standard	52/50	1.84/1.29	82/88	0.56/0.45
B	May-97	R34L70	2850	2850	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R34L70	4800	4850	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R23L65	1600	1650	02H AXIAL	NO	0	0	Local	Standard	64/43	1.87/0.21	87/96	0.75/0.37
B	May-97	R23L65	2850	2850	02H AXIAL	NO	0	0	Local	Standard				
B	May-97	R23L65	4800	4800	02H AXIAL	NO	0	0	Local	Standard				

ARKANSAS NUCLEAR ONE (UNIT TWO)
IN-SITU DATA

S/G	DATE	Tube R/L	Target Press.	Pressure	Flaw Type	Leakage	LEAKAGE Pressure(1)	Leak gal/min	Test Type	Pump	RPC Max Depth	RPC Length	Draw Max Depth	Draw Length
B	May-97	R37L67	1600	1650	01H AXIAL	NO	0	0	Local	Standard	79	1.86	80	1.29
B	May-97	R37L67	2850	2850	01H AXIAL	NO	0	0	Local	Standard				
B	May-97	R37L67	4800	4650	01H AXIAL	BURST			Local	Standard				
A	Mar-98	R60L88	1600	1600	01H AXIAL	NO	0	0	Full Tube	Standard	59	0.82	86	0.84
A	Mar-98	R60L88	2900	2900	01H AXIAL	NO	0	0	Full Tube	Standard				
A	Mar-98	R60L88	4950	4950	01H AXIAL	NO	0	0	Full Tube	Standard				
A	Mar-98	R74L98	1600	1600	01H AXIAL	NO	0	0	Full Tube	Standard	80	1.02	72	1.00
A	Mar-98	R74L98	2900	2900	01H AXIAL	NO	0	0	Full Tube	Standard				
A	Mar-98	R74L98	4950	4950	01H AXIAL	NO	0	0	Full Tube	Standard				
A	Mar-98	R48L70	1600	1600	03H AXIAL	NO	0	0	Full Tube	Standard	75	0.58	75	0.67
A	Mar-98	R48L70	2900	2900	03H AXIAL	NO	0	0	Full Tube	Standard				
A	Mar-98	R48L70	4950	4950	03H AXIAL	NO	0	0	Full Tube	Standard				
B	Mar-98	R3L147	1600	1600	02H AXIAL	NO	0	0	Full Tube	Standard	57	0.94	0.45	5
B	Mar-98	R3L147	2900	2900	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Mar-98	R3L147	4950	5000	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Mar-98	R14L136	1600	1650	01H AXIAL	NO	0	0	Full Tube	Standard	66/48	0.96/0.48	35	0.17
B	Mar-98	R14L136	2900	2900	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Mar-98	R14L136	4950	4950	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R33L73	1600	1600	02H AXIAL	NO	0	0	Full Tube	Standard	89	1.09	100	1.05
B	Jan-99	R33L73	2850	2850	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R33L73	4800	4800	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R63L77	1600	1600	03H AXIAL	NO	0	0	Full Tube	Standard	61	0.88	78	0.73
B	Jan-99	R63L77	2850	2850	03H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R63L77	4800	4800	03H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R85L67	1600	1600	01H AXIAL	NO	0	0	Full Tube	Standard	64/66	0.52/1.43	100/72	1.37/0.55
B	Jan-99	R85L67	2850	2850	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Jan-99	R85L67	4800	3900	01H AXIAL	YES	3800	0.12	Full Tube	Standard				
B	Jan-99	R85L67	Maximum	1000	01H AXIAL	YES	200	4.8	Full Tube	High Vol.				
B	Nov-99	R23L55	1550	1570	02H AXIAL	NO	0	0	Full Tube	Standard	62	1.39	100	1.15
B	Nov-99	R23L55	2200	2231	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R23L55	2850	2855	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R23L55	4100	4167	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R23L55	4650	4730	02H AXIAL	NO	0	0	Full Tube	Standard				

ARKANSAS NUCLEAR ONE (UNIT TWO)
IN-SITU DATA

S/G	DATE	Tube R/L	Target Press.	Pressure	Flaw Type	Leakage	LEAKAGE Pressure(1)	Leak gal/min	Test Type	Pump	RPC Max Depth	RPC Length	Draw Max Depth	Draw Length
B	Nov-99	R102L110	1550	1566	02H AXIAL	NO	0	0	Full Tube	Standard	81	1.55	100	1.24
B	Nov-99	R102L110	2200	2231	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R102L110	2850	2869	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R102L110	4100	4168	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R102L110	4650	4669	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R33L71	1550	1550	01H AXIAL	NO	0	0	Full Tube	Standard	83/87	0.42/0.69	90	0.59
B	Nov-99	R33L71	2200	2200	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R33L71	2850	2850	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R33L71	4100	4100	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R33L71	4650	4650	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R36L36	1550	1566	02H AXIAL	NO	0	0	Full Tube	Standard	67	1.03	91	0.94
B	Nov-99	R36L36	2200	2213	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R36L36	2850	2873	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R36L36	4100	4153	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R36L36	4650	4702	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R53L83	1550	1570	01H AXIAL	NO	0	0	Full Tube	Standard	78	0.64	99	0.64
B	Nov-99	R53L83	2200	2222	01H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R53L83	2850	2859	01H AXIAL	NO	2859	0.014	Full Tube	Standard				
B	Nov-99	R53L83		3520	01H AXIAL	YES	3520	0.04	Full Tube	Standard				
B	Nov-99	R53L83		4106	01H AXIAL	YES	4106	0.12	Full Tube	Standard				
B	Nov-99	R53L83		4569	01H AXIAL	YES	4569	0.94	Full Tube	Standard				
B	Nov-99	R53L83		4667	01H AXIAL	YES	4667	1.22	Full Tube	Standard				
B	Nov-99	R72L72	1550	1550	02H AXIAL	NO	0	0	Full Tube	Standard	83	0.77	96	0.82/1.42
B	Nov-99	R72L72	2200	2200	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R72L72	2850	2850	02H AXIAL	NO	0	0	Full Tube	Standard				
B	Nov-99	R72L72		3830	02H AXIAL	YES	3830	0.02	Full Tube	Standard				
B	Nov-99	R72L72		3961	02H AXIAL	YES			Full Tube	Standard				
B	Nov-99	R72L72		3750	02H AXIAL	YES	3700	0.56	Full Tube	Standard				
B	Nov-99	R72L72		4100	02H AXIAL	YES	4000	0.98	Full Tube	Standard				
B	Nov-99	R72L72		4109	02H AXIAL	YES	4109	1.16	Full Tube	Standard				
B	Nov-99	R72L72		4109	02H AXIAL	YES	970	4.5	Full Tube	Standard				

(1) Pressure at which leakage started.

(2) Lengths and depths with dual entries signify parallel flaws except tube 72-72.