CATEGORY 1

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SUBJECT: Forwards results of SG tube insp performed during Unit 1 forced outage which began on 971228,as required by Tech Specs 4.17.6(b).

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CATEGORY 1 DOCUMENT

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February 5, 1998

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Duke Energy Corporation
Oconee Nuclear Station, Unit 1
Docket No. 50-269
Forced Outage Steam Generator Inspection
Steam Generator Three (3) Month Report

As required by Technical Specifications 4.17.6 (b), the results of the Steam Generator Tube Inspection performed during the Unit 1 forced outage which began on December 28, 1997, are submitted.

1. The following quantity of tubes were inspected from the inlet or outlet of the Steam Generators. The inspections using MRPC only reviewed the roll transition and reroll area and did not review the entire tube.

Steam Generator	Quantity	Inspection Method
A	16	Bobbin
A	2232	MRPC
B	0	Bobbin
B	0	MRPC

2. The following information is submitted concerning tube indications of imperfections. (The attached lists identify the tubes with imperfections, their locations, and their size.)

Steam Generator	Attachment	Inspection Method
A	1	Bobbin
A	2	MRPC/Plus Point

A001

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3. The following information identifies the quantity of tubes removed from service by plugging. (The tubes are identified in the attachments).

Steam Generator	Number of Tubes Removed from Service	Attachment
A	40	3
B	0	4

4. The following quantities of tubes were repaired in the upper tubesheet by rerolling.

Steam Generator	Number of Tubes Repaired by Rerolling	Attachment
A	2232*	5
B	0	6

* 2192 of these tubes remained in service, 40 were plugged and are included in the total of 40 plugged tubes.

5. There were no tubes repaired by sleeving in either steam generator during this outage.

If there are any questions you may contact Michael Bailey at (864) 885-4390.

Very truly yours,

W. R. McCollum, Jr.
Site Vice President

Attachments (6)

xc: Mr. L. A. Reyes
Regional Administrator, Region II
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Mr. D. E. LaBarge, Project Manager
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U.S. Nuclear Regulatory Commission
Washington, DC 20555

ATTACHMENT #1 - LIST OF IMPERFECTIONS - BOBBIN
OCONEE 90 DAY NRC REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION		EXTENT1	EXTENT2
75	126	12/97 LKR	Bobbin	NQI	0.37	010		+0.39	LTE	UTE
81	124	12/97 LKR	Bobbin	NQI	4.67	015		+42.39	LTE	UTE

Total Indications Found = 2
Total Tubes Found = 2

ATTACHMENT #2 - LIST OF IMPERFECTIONS - MRPC
OCONEE 90 DAY NRC REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION		EXTENT1	EXTENT2
23	7	12/97 LKR	REROLL MRPC	SAI		1.37	UTE	-3.62	UTE	UTE

Total Indications Found = 1
Total Tubes Found = 1

PLUGGED TUBES - ATTACHMENT #3

COUNT	ROW	COL	COUNT	ROW	COL
1.	1	12			
2.	3	32			
3.	3	34			
4.	5	3			
5.	5	44			
6.	8	56			
7.	20	84			
8.	22	1			
9.	23	7			
10.	25	1			
11.	36	113			
12.	37	1			
13.	42	1			
14.	44	1			
15.	53	126			
16.	60	129			
17.	65	130			
18.	67	130			
19.	74	125			
20.	75	126			
21.	83	132			
22.	84	131			
23.	85	130			
24.	87	130			
25.	88	129			
26.	102	123			
27.	130	93			
28.	136	6			
29.	137	1			
30.	138	75			
31.	139	73			
32.	143	60			
33.	144	1			
34.	147	44			
35.	147	46			
36.	148	38			
37.	148	41			
38.	149	32			
39.	150	6			
40.	151	10			

Total Data Items Found = 40
Total Tubes Found = 40

PLUGGED TUBES - ATTACHMENT #4

COUNT	ROW	COL	COUNT	ROW	COL

Total Data Items Found = 0
Total Tubes Found = 0

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1.	1	1
2.	1	2
3.	1	3
4.	1	4
5.	1	5
6.	1	6
7.	1	7
8.	1	8
9.	1	9
10.	1	10
11.	1	11
12.	1	12
13.	1	13
14.	1	14
15.	1	15
16.	1	16
17.	2	1
18.	2	2
19.	2	3
20.	2	4
21.	2	5
22.	2	6
23.	2	7
24.	2	8
25.	2	9
26.	2	10
27.	2	11
28.	2	12
29.	2	13
30.	2	15
31.	2	16
32.	2	17
33.	2	18
34.	2	19
35.	2	20
36.	2	21
37.	2	22
38.	2	23
39.	2	24
40.	2	25
41.	2	26
42.	2	27
43.	3	1
44.	3	2
45.	3	3
46.	3	4
47.	3	5
48.	3	6
49.	3	10
50.	3	11
51.	3	12
52.	3	13
53.	3	14
54.	3	15
55.	3	16
56.	3	17
57.	3	18
58.	3	19
59.	3	20
60.	3	21
61.	3	22
62.	3	23
63.	3	24
64.	3	25
65.	3	26
66.	3	27
67.	3	30
68.	3	31
69.	3	32
70.	3	33
71.	3	34
72.	4	1
73.	4	2
74.	4	3
75.	4	5
76.	4	6
77.	4	7
78.	4	8
79.	4	10
80.	4	11
81.	4	12
82.	4	15
83.	4	16
84.	4	17
85.	4	18
86.	4	19
87.	4	20
88.	4	21
89.	4	22
90.	4	24
91.	4	25
92.	4	26

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
93.	4	27
94.	4	28
95.	4	29
96.	4	30
97.	4	33
98.	4	34
99.	4	35
100.	4	36
101.	4	37
102.	4	38
103.	4	39
104.	4	40
105.	4	41
106.	5	1
107.	5	2
108.	5	3
109.	5	4
110.	5	5
111.	5	6
112.	5	7
113.	5	8
114.	5	9
115.	5	12
116.	5	13
117.	5	14
118.	5	15
119.	5	19
120.	5	20
121.	5	21
122.	5	22
123.	5	23
124.	5	24
125.	5	25
126.	5	26
127.	5	27
128.	5	28
129.	5	29
130.	5	30
131.	5	31
132.	5	32
133.	5	33
134.	5	36
135.	5	37
136.	5	38
137.	5	39
138.	5	40
139.	5	41
140.	5	42
141.	5	43
142.	5	44
143.	5	45
144.	5	46
145.	6	1
146.	6	2
147.	6	4
148.	6	5
149.	6	7
150.	6	8
151.	6	9
152.	6	10
153.	6	11
154.	6	12
155.	6	14
156.	6	15
157.	6	16
158.	6	17
159.	6	19
160.	6	20
161.	6	21
162.	6	22
163.	6	23
164.	6	24
165.	6	25
166.	6	26
167.	6	27
168.	6	28
169.	6	29
170.	6	30
171.	6	31
172.	6	32
173.	6	33
174.	6	34
175.	6	35
176.	6	36
177.	6	37
178.	6	39
179.	6	40
180.	6	41
181.	6	42
182.	6	43
183.	6	44
184.	6	45

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
185.	6	46
186.	6	47
187.	6	48
188.	6	49
189.	6	50
190.	6	51
191.	7	1
192.	7	2
193.	7	3
194.	7	5
195.	7	6
196.	7	7
197.	7	8
198.	7	9
199.	7	10
200.	7	11
201.	7	14
202.	7	15
203.	7	16
204.	7	17
205.	7	18
206.	7	19
207.	7	20
208.	7	21
209.	7	22
210.	7	33
211.	7	34
212.	7	35
213.	7	36
214.	7	37
215.	7	38
216.	7	39
217.	7	40
218.	7	41
219.	7	42
220.	7	43
221.	7	44
222.	7	45
223.	7	46
224.	7	47
225.	7	48
226.	7	49
227.	7	50
228.	7	52
229.	7	53
230.	7	54
231.	8	1
232.	8	2
233.	8	3
234.	8	4
235.	8	6
236.	8	7
237.	8	8
238.	8	9
239.	8	10
240.	8	11
241.	8	12
242.	8	13
243.	8	14
244.	8	15
245.	8	17
246.	8	41
247.	8	42
248.	8	43
249.	8	45
250.	8	46
251.	8	47
252.	8	48
253.	8	49
254.	8	50
255.	8	51
256.	8	52
257.	8	53
258.	8	54
259.	8	55
260.	8	56
261.	8	57
262.	9	1
263.	9	2
264.	9	3
265.	9	4
266.	9	5
267.	9	6
268.	9	8
269.	9	9
270.	9	10
271.	9	11
272.	9	12
273.	9	13
274.	9	14
275.	9	15
276.	9	16

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
277.	9	47
278.	9	48
279.	9	49
280.	9	50
281.	9	51
282.	9	52
283.	9	53
284.	9	54
285.	9	55
286.	9	56
287.	9	57
288.	9	58
289.	9	59
290.	9	60
291.	9	61
292.	9	62
293.	10	1
294.	10	2
295.	10	3
296.	10	4
297.	10	5
298.	10	6
299.	10	7
300.	10	8
301.	10	9
302.	10	10
303.	10	11
304.	10	12
305.	10	13
306.	10	14
307.	10	53
308.	10	54
309.	10	55
310.	10	56
311.	10	57
312.	10	58
313.	10	59
314.	10	60
315.	10	61
316.	10	62
317.	10	64
318.	10	65
319.	11	1
320.	11	2
321.	11	3
322.	11	4
323.	11	5
324.	11	6
325.	11	7
326.	11	8
327.	11	9
328.	11	10
329.	11	11
330.	11	12
331.	11	13
332.	11	56
333.	11	57
334.	11	58
335.	11	59
336.	11	60
337.	11	61
338.	11	62
339.	11	63
340.	11	64
341.	11	65
342.	11	66
343.	11	67
344.	11	68
345.	12	2
346.	12	3
347.	12	4
348.	12	5
349.	12	6
350.	12	7
351.	12	8
352.	12	9
353.	12	10
354.	12	11
355.	12	12
356.	12	13
357.	12	59
358.	12	60
359.	12	61
360.	12	62
361.	12	63
362.	12	64
363.	12	65
364.	12	66
365.	12	67
366.	12	68
367.	12	69
368.	12	70

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
369.	12	71
370.	13	1
371.	13	2
372.	13	3
373.	13	4
374.	13	5
375.	13	6
376.	13	7
377.	13	8
378.	13	9
379.	13	10
380.	13	11
381.	13	12
382.	13	63
383.	13	64
384.	13	65
385.	13	66
386.	13	67
387.	13	68
388.	13	69
389.	13	70
390.	13	71
391.	13	72
392.	13	73
393.	13	74
394.	14	1
395.	14	2
396.	14	3
397.	14	4
398.	14	5
399.	14	6
400.	14	7
401.	14	8
402.	14	9
403.	14	10
404.	14	11
405.	14	65
406.	14	66
407.	14	67
408.	14	68
409.	14	70
410.	14	72
411.	14	73
412.	14	75
413.	15	1
414.	15	2
415.	15	3
416.	15	4
417.	15	5
418.	15	6
419.	15	7
420.	15	8
421.	15	9
422.	15	10
423.	15	11
424.	15	68
425.	15	69
426.	15	70
427.	15	71
428.	15	72
429.	15	73
430.	15	74
431.	15	75
432.	15	76
433.	15	77
434.	15	78
435.	16	1
436.	16	2
437.	16	3
438.	16	4
439.	16	5
440.	16	6
441.	16	7
442.	16	8
443.	16	9
444.	16	10
445.	16	72
446.	16	73
447.	16	74
448.	16	76
449.	16	79
450.	16	80
451.	16	81
452.	17	2
453.	17	3
454.	17	4
455.	17	5
456.	17	6
457.	17	7
458.	17	8
459.	17	9
460.	17	10

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
461.	17	73
462.	17	74
463.	17	75
464.	17	76
465.	17	77
466.	17	78
467.	17	80
468.	17	81
469.	17	82
470.	18	1
471.	18	2
472.	18	3
473.	18	4
474.	18	5
475.	18	6
476.	18	7
477.	18	8
478.	18	9
479.	18	10
480.	18	76
481.	18	77
482.	18	78
483.	18	79
484.	18	80
485.	18	81
486.	18	82
487.	18	83
488.	18	84
489.	18	85
490.	19	1
491.	19	2
492.	19	3
493.	19	4
494.	19	5
495.	19	6
496.	19	7
497.	19	8
498.	19	9
499.	19	78
500.	19	79
501.	19	80
502.	19	82
503.	19	83
504.	19	84
505.	19	85
506.	19	86

COUNT	ROW	COL
507.	20	1
508.	20	2
509.	20	3
510.	20	4
511.	20	5
512.	20	6
513.	20	7
514.	20	8
515.	20	9
516.	20	77
517.	20	78
518.	20	79
519.	20	80
520.	20	81
521.	20	82
522.	20	83
523.	20	84
524.	20	85
525.	21	1
526.	21	2
527.	21	3
528.	21	4
529.	21	5
530.	21	6
531.	21	7
532.	21	8
533.	21	9
534.	21	82
535.	21	83
536.	21	84
537.	21	86
538.	21	87
539.	21	88
540.	21	89
541.	21	90
542.	22	1
543.	22	2
544.	22	3
545.	22	4
546.	22	5
547.	22	6
548.	22	7
549.	22	8
550.	22	9
551.	22	85
552.	22	86

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
553.	22	88
554.	22	89
555.	22	90
556.	22	91
557.	22	92
558.	23	1
559.	23	2
560.	23	3
561.	23	4
562.	23	5
563.	23	6
564.	23	7
565.	23	8
566.	23	87
567.	23	89
568.	23	90
569.	23	91
570.	23	92
571.	23	93
572.	24	1
573.	24	2
574.	24	3
575.	24	4
576.	24	5
577.	24	6
578.	24	7
579.	24	8
580.	24	88
581.	24	90
582.	24	91
583.	24	92
584.	24	93
585.	24	94
586.	25	1
587.	25	2
588.	25	3
589.	25	4
590.	25	5
591.	25	6
592.	25	7
593.	25	8
594.	25	91
595.	25	92
596.	25	93
597.	25	94
598.	25	95
599.	25	96
600.	25	97
601.	25	98
602.	26	1
603.	26	2
604.	26	3
605.	26	4
606.	26	5
607.	26	6
608.	26	7
609.	26	8
610.	26	92
611.	26	93
612.	26	94
613.	26	95
614.	26	96
615.	26	97
616.	26	98
617.	26	99
618.	27	1
619.	27	2
620.	27	3
621.	27	4
622.	27	6
623.	27	7
624.	27	8
625.	27	93
626.	27	94
627.	27	95
628.	27	96
629.	27	97
630.	27	98
631.	27	99
632.	27	100
633.	28	1
634.	28	2
635.	28	3
636.	28	4
637.	28	5
638.	28	6
639.	28	7
640.	28	95
641.	28	96
642.	28	97
643.	28	98
644.	28	99

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
645.	28	100
646.	28	101
647.	29	1
648.	29	2
649.	29	3
650.	29	4
651.	29	5
652.	29	6
653.	29	7
654.	29	8
655.	29	97
656.	29	98
657.	29	99
658.	29	100
659.	29	101
660.	29	102
661.	29	103
662.	29	104
663.	30	1
664.	30	2
665.	30	3
666.	30	4
667.	30	5
668.	30	6
669.	30	7
670.	30	98
671.	30	99
672.	30	100
673.	30	101
674.	30	102
675.	30	103
676.	30	104
677.	31	1
678.	31	2
679.	31	3
680.	31	4
681.	31	5
682.	31	6
683.	31	7
684.	31	100
685.	31	101
686.	31	102
687.	31	103
688.	31	104
689.	31	105
690.	31	106
691.	32	1
692.	32	2
693.	32	3
694.	32	4
695.	32	6
696.	32	7
697.	32	101
698.	32	102
699.	32	104
700.	32	105
701.	32	106
702.	32	107
703.	33	1
704.	33	3
705.	33	5
706.	33	6
707.	33	7
708.	33	102
709.	33	103
710.	33	104
711.	33	105
712.	33	107
713.	33	108
714.	34	1
715.	34	2
716.	34	3
717.	34	4
718.	34	5
719.	34	6
720.	34	7
721.	34	101
722.	34	102
723.	34	103
724.	34	104
725.	34	106
726.	34	107
727.	35	1
728.	35	2
729.	35	3
730.	35	4
731.	35	5
732.	35	6
733.	35	7
734.	35	102
735.	35	103
736.	35	104

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
737.	35	105
738.	35	106
739.	35	107
740.	36	1
741.	36	2
742.	36	3
743.	36	4
744.	36	6
745.	36	7
746.	36	106
747.	36	107
748.	36	108
749.	36	110
750.	36	111
751.	36	112
752.	36	113
753.	37	1
754.	37	2
755.	37	3
756.	37	4
757.	37	5
758.	37	6
759.	37	110
760.	37	111
761.	37	112
762.	37	113
763.	37	114
764.	38	1
765.	38	2
766.	38	3
767.	38	4
768.	38	5
769.	38	6
770.	38	7
771.	38	109
772.	38	110
773.	38	111
774.	38	113
775.	38	114
776.	38	115
777.	39	1
778.	39	2
779.	39	3
780.	39	4
781.	39	5
782.	39	110
783.	39	111
784.	39	112
785.	39	113
786.	39	114
787.	39	115
788.	39	116
789.	40	1
790.	40	2
791.	40	3
792.	40	4
793.	40	6
794.	40	7
795.	40	111
796.	40	112
797.	40	113
798.	40	114
799.	40	115
800.	41	1
801.	41	2
802.	41	3
803.	41	4
804.	41	5
805.	41	6
806.	41	111
807.	41	112
808.	41	113
809.	41	114
810.	41	115
811.	42	1
812.	42	2
813.	42	3
814.	42	4
815.	42	6
816.	42	112
817.	42	113
818.	42	114
819.	42	115
820.	42	116
821.	42	117
822.	43	1
823.	43	2
824.	43	3
825.	43	4
826.	43	5
827.	43	6
828.	43	113

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
829.	43	114
830.	43	116
831.	43	117
832.	43	118
833.	44	1
834.	44	2
835.	44	3
836.	44	4
837.	44	5
838.	44	6
839.	44	114
840.	44	115
841.	44	116
842.	44	117
843.	44	118
844.	44	119
845.	45	1
846.	45	2
847.	45	3
848.	45	5
849.	45	6
850.	45	116
851.	45	117
852.	45	118
853.	45	119
854.	45	120
855.	46	1
856.	46	2
857.	46	3
858.	46	4
859.	46	5
860.	46	114
861.	46	115
862.	46	116
863.	46	117
864.	46	118
865.	47	1
866.	47	2
867.	47	4
868.	47	5
869.	47	6
870.	47	7
871.	47	116
872.	47	117
873.	47	118
874.	47	119
875.	47	120
876.	47	121
877.	47	122
878.	48	1
879.	48	2
880.	48	3
881.	48	4
882.	48	5
883.	48	6
884.	48	117
885.	48	118
886.	48	119
887.	48	121
888.	48	122
889.	49	1
890.	49	2
891.	49	3
892.	49	4
893.	49	5
894.	49	118
895.	49	119
896.	49	120
897.	49	121
898.	49	122
899.	49	123
900.	49	124
901.	50	1
902.	50	3
903.	50	4
904.	50	5
905.	50	6
906.	50	118
907.	50	119
908.	50	120
909.	50	121
910.	50	122
911.	50	123
912.	51	1
913.	51	2
914.	51	3
915.	51	4
916.	51	5
917.	51	6
918.	51	119
919.	51	120
920.	51	121

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
921.	51	122
922.	51	123
923.	51	124
924.	52	1
925.	52	2
926.	52	4
927.	52	5
928.	52	6
929.	52	120
930.	52	121
931.	52	123
932.	52	124
933.	52	125
934.	53	1
935.	53	2
936.	53	3
937.	53	4
938.	53	5
939.	53	6
940.	53	121
941.	53	122
942.	53	125
943.	53	126
944.	54	1
945.	54	2
946.	54	3
947.	54	4
948.	54	5
949.	54	6
950.	54	7
951.	54	121
952.	54	126
953.	55	2
954.	55	3
955.	55	4
956.	55	5
957.	55	6
958.	55	121
959.	55	123
960.	55	124
961.	55	125
962.	55	126
963.	56	1
964.	56	2
965.	56	3
966.	56	4
967.	56	122
968.	56	123
969.	56	126
970.	56	127
971.	57	1
972.	57	2
973.	57	3
974.	57	4
975.	57	5
976.	57	6
977.	57	123
978.	57	127
979.	58	1
980.	58	2
981.	58	3
982.	58	4
983.	58	5
984.	58	6
985.	58	7
986.	58	123
987.	58	124
988.	58	125
989.	58	126
990.	58	127
991.	58	128
992.	58	129
993.	59	1
994.	59	2
995.	59	3
996.	59	4
997.	59	5
998.	59	6
999.	59	119
1000.	59	120
1001.	59	121
1002.	59	122
1003.	59	124
1004.	60	3
1005.	60	4
1006.	60	5
1007.	60	124
1008.	60	125
1009.	60	126
1010.	60	127
1011.	60	128
1012.	60	129

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1013.	61	3
1014.	61	4
1015.	61	5
1016.	61	6
1017.	61	121
1018.	61	122
1019.	61	124
1020.	61	125
1021.	61	126
1022.	62	2
1023.	62	3
1024.	62	4
1025.	62	5
1026.	62	6
1027.	62	124
1028.	62	125
1029.	62	126
1030.	62	127
1031.	62	128
1032.	62	129
1033.	63	3
1034.	63	4
1035.	63	5
1036.	63	125
1037.	63	126
1038.	63	127
1039.	63	128
1040.	63	130
1041.	64	6
1042.	64	124
1043.	64	125
1044.	65	5
1045.	65	6
1046.	65	126
1047.	65	127
1048.	65	129
1049.	65	130
1050.	66	6
1051.	66	126
1052.	66	128
1053.	66	129
1054.	66	130
1055.	66	131
1056.	67	125
1057.	67	126
1058.	67	127
1059.	67	128
1060.	67	129
1061.	67	130
1062.	68	126
1063.	68	127
1064.	68	129
1065.	68	131
1066.	69	127
1067.	69	128
1068.	69	130
1069.	69	131
1070.	70	127
1071.	70	128
1072.	70	129
1073.	70	131
1074.	71	126
1075.	71	128
1076.	71	131
1077.	72	125
1078.	72	127
1079.	72	129
1080.	72	130
1081.	73	125
1082.	73	126
1083.	73	127
1084.	73	128
1085.	73	129
1086.	73	130
1087.	74	120
1088.	74	121
1089.	74	122
1090.	74	123
1091.	74	124
1092.	74	125
1093.	75	121
1094.	75	122
1095.	75	123
1096.	75	124
1097.	75	126
1098.	76	120
1099.	76	121
1100.	76	122
1101.	76	123
1102.	77	121
1103.	77	122
1104.	77	123

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1105.	77	124
1106.	77	126
1107.	78	121
1108.	78	122
1109.	78	123
1110.	78	124
1111.	78	126
1112.	79	125
1113.	79	126
1114.	79	127
1115.	79	128
1116.	79	129
1117.	79	130
1118.	80	126
1119.	80	128
1120.	80	129
1121.	80	130
1122.	80	131
1123.	81	124
1124.	81	126
1125.	81	127
1126.	81	128
1127.	81	129
1128.	81	130
1129.	81	131
1130.	82	126
1131.	82	127
1132.	82	128
1133.	82	130
1134.	83	127
1135.	83	128
1136.	83	129
1137.	83	130
1138.	83	131
1139.	83	132
1140.	84	127
1141.	84	129
1142.	84	130
1143.	84	131
1144.	85	125
1145.	85	126
1146.	85	127
1147.	85	128
1148.	85	129
1149.	85	130
1150.	86	127
1151.	86	128
1152.	86	129
1153.	86	130
1154.	87	6
1155.	87	125
1156.	87	126
1157.	87	127
1158.	87	128
1159.	87	129
1160.	87	130
1161.	88	5
1162.	88	6
1163.	88	124
1164.	88	125
1165.	88	127
1166.	88	129
1167.	89	3
1168.	89	4
1169.	89	5
1170.	89	6
1171.	89	125
1172.	89	126
1173.	89	128
1174.	89	129
1175.	89	130
1176.	90	2
1177.	90	4
1178.	90	5
1179.	90	6
1180.	90	124
1181.	90	125
1182.	90	126
1183.	90	127
1184.	90	128
1185.	90	129
1186.	91	1
1187.	91	2
1188.	91	3
1189.	91	4
1190.	91	5
1191.	91	6
1192.	91	121
1193.	91	122
1194.	91	123
1195.	91	124
1196.	91	125

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1197.	91	126
1198.	92	1
1199.	92	2
1200.	92	3
1201.	92	4
1202.	92	5
1203.	92	6
1204.	92	124
1205.	92	125
1206.	92	126
1207.	92	127
1208.	92	128
1209.	92	129
1210.	93	1
1211.	93	2
1212.	93	3
1213.	93	5
1214.	93	6
1215.	93	119
1216.	93	120
1217.	93	121
1218.	93	122
1219.	93	123
1220.	94	3
1221.	94	5
1222.	94	6
1223.	94	7
1224.	94	123
1225.	94	124
1226.	94	125
1227.	94	126
1228.	94	127
1229.	94	128
1230.	95	1
1231.	95	2
1232.	95	3
1233.	95	4
1234.	95	5
1235.	95	6
1236.	95	123
1237.	95	124
1238.	95	125
1239.	95	126
1240.	95	127
1241.	95	128
1242.	96	1
1243.	96	2
1244.	96	3
1245.	96	4
1246.	96	122
1247.	96	123
1248.	96	124
1249.	96	125
1250.	96	126
1251.	96	127
1252.	97	1
1253.	97	2
1254.	97	3
1255.	97	4
1256.	97	5
1257.	97	6
1258.	97	121
1259.	97	122
1260.	97	123
1261.	97	124
1262.	97	125
1263.	97	126
1264.	98	1
1265.	98	2
1266.	98	3
1267.	98	4
1268.	98	5
1269.	98	6
1270.	98	7
1271.	98	121
1272.	98	122
1273.	98	123
1274.	98	124
1275.	98	125
1276.	98	126
1277.	98	127
1278.	99	1
1279.	99	2
1280.	99	3
1281.	99	5
1282.	99	6
1283.	99	121
1284.	99	122
1285.	99	124
1286.	99	125
1287.	99	126
1288.	100	1

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1289.	100	2
1290.	100	3
1291.	100	4
1292.	100	5
1293.	100	6
1294.	100	120
1295.	100	121
1296.	100	122
1297.	100	123
1298.	100	124
1299.	100	125
1300.	101	1
1301.	101	2
1302.	101	3
1303.	101	4
1304.	101	5
1305.	101	6
1306.	101	119
1307.	101	120
1308.	101	121
1309.	101	122
1310.	101	124
1311.	102	1
1312.	102	2
1313.	102	3
1314.	102	4
1315.	102	5
1316.	102	6
1317.	102	118
1318.	102	119
1319.	102	120
1320.	102	121
1321.	102	122
1322.	102	123
1323.	103	1
1324.	103	2
1325.	103	3
1326.	103	4
1327.	103	5
1328.	103	6
1329.	103	7
1330.	103	118
1331.	103	119
1332.	103	120
1333.	103	121
1334.	103	122
1335.	103	124
1336.	104	1
1337.	104	2
1338.	104	3
1339.	104	5
1340.	104	6
1341.	104	7
1342.	104	117
1343.	104	118
1344.	104	119
1345.	104	120
1346.	104	121
1347.	104	123
1348.	105	1
1349.	105	2
1350.	105	3
1351.	105	4
1352.	105	5
1353.	105	6
1354.	105	7
1355.	105	116
1356.	105	117
1357.	105	118
1358.	105	119
1359.	105	120
1360.	105	121
1361.	105	122
1362.	106	1
1363.	106	2
1364.	106	3
1365.	106	4
1366.	106	6
1367.	106	114
1368.	106	115
1369.	106	116
1370.	106	117
1371.	106	118
1372.	106	119
1373.	107	1
1374.	107	2
1375.	107	3
1376.	107	4
1377.	107	5
1378.	107	6
1379.	107	115
1380.	107	116

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1381.	107	117
1382.	107	118
1383.	107	119
1384.	107	120
1385.	108	1
1386.	108	2
1387.	108	3
1388.	108	4
1389.	108	5
1390.	108	6
1391.	108	114
1392.	108	115
1393.	108	116
1394.	108	117
1395.	108	118
1396.	108	119
1397.	109	1
1398.	109	2
1399.	109	3
1400.	109	4
1401.	109	5
1402.	109	6
1403.	109	113
1404.	109	114
1405.	109	115
1406.	109	116
1407.	109	117
1408.	109	118
1409.	110	1
1410.	110	2
1411.	110	3
1412.	110	4
1413.	110	5
1414.	110	6
1415.	110	112
1416.	110	113
1417.	110	114
1418.	110	115
1419.	110	116
1420.	110	117
1421.	111	1
1422.	111	2
1423.	111	3
1424.	111	4
1425.	111	5
1426.	111	6
1427.	111	111
1428.	111	112
1429.	111	113
1430.	111	114
1431.	111	115
1432.	111	116
1433.	112	1
1434.	112	4
1435.	112	5
1436.	112	7
1437.	112	111
1438.	112	112
1439.	112	113
1440.	112	114
1441.	112	115
1442.	112	116
1443.	113	1
1444.	113	3
1445.	113	4
1446.	113	5
1447.	113	6
1448.	113	7
1449.	113	110
1450.	113	111
1451.	113	112
1452.	113	113
1453.	113	114
1454.	113	115
1455.	114	1
1456.	114	2
1457.	114	3
1458.	114	4
1459.	114	5
1460.	114	6
1461.	114	7
1462.	114	109
1463.	114	110
1464.	114	111
1465.	114	112
1466.	114	113
1467.	114	114
1468.	114	115
1469.	115	1
1470.	115	2
1471.	115	3
1472.	115	4

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1473.	115	5
1474.	115	6
1475.	115	7
1476.	115	108
1477.	115	109
1478.	115	110
1479.	115	111
1480.	115	112
1481.	115	113
1482.	116	1
1483.	116	2
1484.	116	3
1485.	116	4
1486.	116	5
1487.	116	6
1488.	116	7
1489.	116	106
1490.	116	107
1491.	116	108
1492.	116	109
1493.	116	110
1494.	116	111
1495.	116	112
1496.	117	1
1497.	117	2
1498.	117	3
1499.	117	4
1500.	117	102
1501.	117	103
1502.	117	104
1503.	117	105
1504.	117	106
1505.	118	1
1506.	118	2
1507.	118	3
1508.	118	4
1509.	118	5
1510.	118	6
1511.	118	7
1512.	118	101
1513.	118	102
1514.	118	103
1515.	118	104
1516.	118	105
1517.	118	106
1518.	118	107
1519.	119	1
1520.	119	2
1521.	119	3
1522.	119	4
1523.	119	5
1524.	119	6
1525.	119	7
1526.	119	102
1527.	119	103
1528.	119	104
1529.	119	105
1530.	119	106
1531.	119	107
1532.	119	108
1533.	120	1
1534.	120	2
1535.	120	3
1536.	120	4
1537.	120	5
1538.	120	6
1539.	120	7
1540.	120	101
1541.	120	102
1542.	120	103
1543.	120	104
1544.	120	105
1545.	120	106
1546.	120	107
1547.	121	1
1548.	121	2
1549.	121	3
1550.	121	4
1551.	121	5
1552.	121	6
1553.	121	7
1554.	121	100
1555.	121	101
1556.	121	102
1557.	121	103
1558.	121	104
1559.	121	105
1560.	121	106
1561.	122	1
1562.	122	2
1563.	122	3
1564.	122	4

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1565.	122	5
1566.	122	6
1567.	122	8
1568.	122	98
1569.	122	99
1570.	122	100
1571.	122	101
1572.	122	102
1573.	122	103
1574.	122	104
1575.	122	105
1576.	123	1
1577.	123	2
1578.	123	3
1579.	123	4
1580.	123	5
1581.	123	6
1582.	123	8
1583.	123	97
1584.	123	98
1585.	123	99
1586.	123	100
1587.	123	101
1588.	123	102
1589.	123	103
1590.	123	104
1591.	124	1
1592.	124	3
1593.	124	4
1594.	124	6
1595.	124	7
1596.	124	95
1597.	124	96
1598.	124	97
1599.	124	98
1600.	124	99
1601.	124	100
1602.	124	101
1603.	125	1
1604.	125	2
1605.	125	3
1606.	125	4
1607.	125	5
1608.	125	6
1609.	125	7
1610.	125	8
1611.	125	93
1612.	125	94
1613.	125	95
1614.	125	96
1615.	125	97
1616.	125	98
1617.	125	99
1618.	125	100
1619.	126	1
1620.	126	2
1621.	126	3
1622.	126	4
1623.	126	5
1624.	126	6
1625.	126	7
1626.	126	8
1627.	126	92
1628.	126	93
1629.	126	94
1630.	126	95
1631.	126	96
1632.	126	97
1633.	126	98
1634.	126	99
1635.	127	1
1636.	127	3
1637.	127	4
1638.	127	5
1639.	127	6
1640.	127	7
1641.	127	8
1642.	127	91
1643.	127	92
1644.	127	93
1645.	127	94
1646.	127	95
1647.	127	96
1648.	127	97
1649.	127	98
1650.	128	2
1651.	128	3
1652.	128	4
1653.	128	5
1654.	128	6
1655.	128	7
1656.	128	8

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1657.	128	88
1658.	128	89
1659.	128	90
1660.	128	91
1661.	128	92
1662.	128	94
1663.	128	95
1664.	129	2
1665.	129	3
1666.	129	4
1667.	129	5
1668.	129	6
1669.	129	7
1670.	129	8
1671.	129	87
1672.	129	88
1673.	129	89
1674.	129	90
1675.	129	92
1676.	129	93
1677.	129	94
1678.	130	3
1679.	130	4
1680.	130	5
1681.	130	6
1682.	130	7
1683.	130	8
1684.	130	9
1685.	130	85
1686.	130	86
1687.	130	87
1688.	130	88
1689.	130	89
1690.	130	90
1691.	130	91
1692.	130	92
1693.	130	93
1694.	131	2
1695.	131	3
1696.	131	4
1697.	131	5
1698.	131	6
1699.	131	7
1700.	131	8
1701.	131	9
1702.	131	82
1703.	131	83
1704.	131	84
1705.	131	85
1706.	131	86
1707.	131	87
1708.	131	89
1709.	132	1
1710.	132	2
1711.	132	3
1712.	132	4
1713.	132	5
1714.	132	6
1715.	132	7
1716.	132	8
1717.	132	9
1718.	132	77
1719.	132	78
1720.	132	79
1721.	132	80
1722.	132	81
1723.	132	84
1724.	132	85
1725.	133	1
1726.	133	2
1727.	133	3
1728.	133	5
1729.	133	6
1730.	133	7
1731.	133	8
1732.	133	9
1733.	133	78
1734.	133	79
1735.	133	80
1736.	133	81
1737.	133	82
1738.	133	83
1739.	133	85
1740.	133	86
1741.	134	1
1742.	134	2
1743.	134	3
1744.	134	4
1745.	134	5
1746.	134	6
1747.	134	7
1748.	134	8

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1749.	134	9
1750.	134	10
1751.	134	76
1752.	134	77
1753.	134	79
1754.	134	80
1755.	134	81
1756.	134	82
1757.	134	83
1758.	134	84
1759.	134	85
1760.	135	1
1761.	135	2
1762.	135	3
1763.	135	4
1764.	135	8
1765.	135	9
1766.	135	10
1767.	135	73
1768.	135	74
1769.	135	75
1770.	135	76
1771.	135	77
1772.	135	79
1773.	135	80
1774.	135	81
1775.	135	82
1776.	136	1
1777.	136	2
1778.	136	3
1779.	136	4
1780.	136	5
1781.	136	6
1782.	136	7
1783.	136	8
1784.	136	9
1785.	136	10
1786.	136	72
1787.	136	73
1788.	136	74
1789.	136	75
1790.	136	76
1791.	136	77
1792.	136	78
1793.	136	79
1794.	136	80
1795.	136	81
1796.	137	1
1797.	137	2
1798.	137	5
1799.	137	6
1800.	137	7
1801.	137	8
1802.	137	10
1803.	137	11
1804.	137	68
1805.	137	71
1806.	137	72
1807.	137	74
1808.	137	75
1809.	137	76
1810.	137	77
1811.	137	78
1812.	138	1
1813.	138	3
1814.	138	4
1815.	138	6
1816.	138	7
1817.	138	8
1818.	138	9
1819.	138	10
1820.	138	11
1821.	138	65
1822.	138	66
1823.	138	68
1824.	138	69
1825.	138	70
1826.	138	71
1827.	138	72
1828.	138	73
1829.	138	74
1830.	138	75
1831.	139	1
1832.	139	2
1833.	139	3
1834.	139	4
1835.	139	5
1836.	139	6
1837.	139	7
1838.	139	8
1839.	139	9
1840.	139	10

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1841.	139	11
1842.	139	12
1843.	139	63
1844.	139	64
1845.	139	65
1846.	139	66
1847.	139	67
1848.	139	68
1849.	139	69
1850.	139	70
1851.	139	71
1852.	139	72
1853.	139	73
1854.	140	1
1855.	140	2
1856.	140	3
1857.	140	4
1858.	140	5
1859.	140	6
1860.	140	7
1861.	140	8
1862.	140	9
1863.	140	10
1864.	140	11
1865.	140	12
1866.	140	13
1867.	140	59
1868.	140	60
1869.	140	61
1870.	140	62
1871.	140	63
1872.	140	64
1873.	140	66
1874.	140	67
1875.	140	68
1876.	140	69
1877.	140	70
1878.	141	1
1879.	141	2
1880.	141	3
1881.	141	4
1882.	141	5
1883.	141	6
1884.	141	7
1885.	141	8
1886.	141	9
1887.	141	10
1888.	141	11
1889.	141	12
1890.	141	13
1891.	141	56
1892.	141	57
1893.	141	58
1894.	141	59
1895.	141	60
1896.	141	61
1897.	141	62
1898.	141	63
1899.	141	64
1900.	141	65
1901.	141	66
1902.	141	67
1903.	141	68
1904.	142	2
1905.	142	3
1906.	142	4
1907.	142	5
1908.	142	6
1909.	142	7
1910.	142	8
1911.	142	10
1912.	142	11
1913.	142	12
1914.	142	13
1915.	142	14
1916.	142	52
1917.	142	53
1918.	142	54
1919.	142	55
1920.	142	56
1921.	142	57
1922.	142	58
1923.	142	59
1924.	142	60
1925.	142	61
1926.	142	62
1927.	142	63
1928.	142	64
1929.	142	65
1930.	143	1
1931.	143	2
1932.	143	3

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
1933.	143	4
1934.	143	5
1935.	143	6
1936.	143	7
1937.	143	8
1938.	143	9
1939.	143	10
1940.	143	11
1941.	143	12
1942.	143	13
1943.	143	14
1944.	143	15
1945.	143	16
1946.	143	47
1947.	143	48
1948.	143	49
1949.	143	50
1950.	143	51
1951.	143	52
1952.	143	53
1953.	143	54
1954.	143	55
1955.	143	56
1956.	143	57
1957.	143	59
1958.	143	60
1959.	143	61
1960.	143	62
1961.	144	1
1962.	144	2
1963.	144	3
1964.	144	4
1965.	144	5
1966.	144	6
1967.	144	7
1968.	144	8
1969.	144	9
1970.	144	10
1971.	144	11
1972.	144	12
1973.	144	13
1974.	144	14
1975.	144	15
1976.	144	16
1977.	144	17
1978.	144	41
1979.	144	42
1980.	144	43
1981.	144	44
1982.	144	45
1983.	144	46
1984.	144	47
1985.	144	49
1986.	144	50
1987.	144	51
1988.	144	52
1989.	144	53
1990.	144	54
1991.	144	55
1992.	144	56
1993.	144	57
1994.	145	1
1995.	145	2
1996.	145	5
1997.	145	6
1998.	145	7
1999.	145	8
2000.	145	9
2001.	145	10
2002.	145	11
2003.	145	12
2004.	145	13
2005.	145	14
2006.	145	16
2007.	145	17
2008.	145	18
2009.	145	19
2010.	145	20
2011.	145	21
2012.	145	22
2013.	145	33
2014.	145	34
2015.	145	35
2016.	145	36
2017.	145	37
2018.	145	38
2019.	145	39
2020.	145	40
2021.	145	41
2022.	145	42
2023.	145	44
2024.	145	45

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL	COUNT	ROW	COL
2025.	145	46	2071.	146	42
2026.	145	47	2072.	146	43
2027.	145	48	2073.	146	44
2028.	145	49	2074.	146	45
2029.	145	50	2075.	146	46
2030.	145	51	2076.	146	48
2031.	145	52	2077.	146	49
2032.	145	53	2078.	146	50
2033.	145	54	2079.	146	51
2034.	146	4	2080.	147	1
2035.	146	5	2081.	147	3
2036.	146	6	2082.	147	4
2037.	146	7	2083.	147	5
2038.	146	8	2084.	147	6
2039.	146	9	2085.	147	7
2040.	146	10	2086.	147	8
2041.	146	11	2087.	147	9
2042.	146	12	2088.	147	10
2043.	146	13	2089.	147	12
2044.	146	15	2090.	147	13
2045.	146	16	2091.	147	14
2046.	146	17	2092.	147	15
2047.	146	18	2093.	147	16
2048.	146	19	2094.	147	17
2049.	146	20	2095.	147	18
2050.	146	21	2096.	147	19
2051.	146	22	2097.	147	20
2052.	146	23	2098.	147	21
2053.	146	24	2099.	147	22
2054.	146	25	2100.	147	23
2055.	146	26	2101.	147	24
2056.	146	27	2102.	147	25
2057.	146	28	2103.	147	26
2058.	146	29	2104.	147	27
2059.	146	30	2105.	147	28
2060.	146	31	2106.	147	29
2061.	146	32	2107.	147	30
2062.	146	33	2108.	147	31
2063.	146	34	2109.	147	32
2064.	146	35	2110.	147	33
2065.	146	36	2111.	147	34
2066.	146	37	2112.	147	35
2067.	146	38	2113.	147	36
2068.	146	39	2114.	147	40
2069.	146	40	2115.	147	41
2070.	146	41	2116.	147	42

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL
2117.	147	43
2118.	147	44
2119.	147	45
2120.	147	46
2121.	148	1
2122.	148	2
2123.	148	3
2124.	148	4
2125.	148	5
2126.	148	6
2127.	148	7
2128.	148	8
2129.	148	9
2130.	148	10
2131.	148	11
2132.	148	12
2133.	148	13
2134.	148	14
2135.	148	15
2136.	148	16
2137.	148	17
2138.	148	18
2139.	148	19
2140.	148	20
2141.	148	21
2142.	148	22
2143.	148	23
2144.	148	24
2145.	148	25
2146.	148	26
2147.	148	27
2148.	148	28
2149.	148	29
2150.	148	30
2151.	148	31
2152.	148	32
2153.	148	33
2154.	148	34
2155.	148	35
2156.	148	36
2157.	148	37
2158.	148	38
2159.	148	39
2160.	148	41
2161.	149	1
2162.	149	2
2163.	149	3
2164.	149	4
2165.	149	5
2166.	149	6
2167.	149	7
2168.	149	8
2169.	149	9
2170.	149	10
2171.	149	11
2172.	149	12
2173.	149	13
2174.	149	14
2175.	149	15
2176.	149	16
2177.	149	17
2178.	149	19
2179.	149	20
2180.	149	21
2181.	149	23
2182.	149	24
2183.	149	25
2184.	149	26
2185.	149	27
2186.	149	28
2187.	149	29
2188.	149	30
2189.	149	32
2190.	149	33
2191.	149	34
2192.	150	1
2193.	150	2
2194.	150	3
2195.	150	4
2196.	150	5
2197.	150	6
2198.	150	7
2199.	150	8
2200.	150	9
2201.	150	10
2202.	150	11
2203.	150	12
2204.	150	13
2205.	150	14
2206.	150	15
2207.	150	16
2208.	150	17

TUBES REROLLED - ATTACHMENT #5

COUNT	ROW	COL	COUNT	ROW	COL
2209.	150	18			
2210.	150	19			
2211.	150	20			
2212.	150	21			
2213.	150	22			
2214.	150	23			
2215.	150	24			
2216.	150	25			
2217.	150	26			
2218.	150	27			
2219.	151	1			
2220.	151	2			
2221.	151	3			
2222.	151	4			
2223.	151	5			
2224.	151	7			
2225.	151	8			
2226.	151	9			
2227.	151	10			
2228.	151	11			
2229.	151	12			
2230.	151	14			
2231.	151	15			
2232.	151	16			

Total Data Items Found = 2232
Total Tubes Found = 2232

TUBES REROLLED - ATTACHMENT #6

COUNT	ROW	COL	COUNT	ROW	COL

Total Data Items Found = 0
Total Tubes Found = 0

Duke Power
A Duke Energy Company

Duke Power Company
A Duke Energy Company
Oconee Nuclear Site
P.O. Box 1439
Seneca, SC 29679

(864) 885-3107 OFFICE
(864) 885-3564 FAX

W. R. McCollum, Jr.
Vice President

February 5, 1998

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Duke Energy Corporation
Oconee Nuclear Station, Unit 1
Docket No. 50-269
Forced Outage Steam Generator Inspection
Steam Generator Tube Plugging and Repair 30 Day Report

As required by Technical Specification 4.17.6 (a), the number of tubes plugged or repaired during the Steam Generator Inspection for the Unit 1 forced outage which began on December 28, 1997, is submitted.

The tables below identify the quantity of tubes removed from service by plugging. No tubes were repaired by sleeving in either steam generator. There were some tubes repaired by rerolling in the upper tubesheet.

Steam Generator	Number of Tubes Plugged
A	40
B	0

Steam Generator	Number of Tubes Rerolled
A	2232*
B	0

* 2192 of these tubes remained in service, 40 were plugged and are included in the total of 40 plugged tubes.

If there are any questions you may contact Michael Bailey at (864) 885-4390.

Very truly yours,

W. R. McCollum, Jr.
Site Vice President

9802170173

xc : Mr. L. A. Reyes
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission

Mr. M. A. Scott
Senior NRC Resident Inspector
Oconee Nuclear Station

Mr. Max Batavia
Bureau of Radiological Health
SC Dept. of Health & Environmental Control
2600 Bull St. Columbia, SC 29201

Mr. D. E. LaBarge, Project Manager
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555