

**DUKE POWER COMPANY**  
**OCONEE 1 CYCLE 16**  
**CORE OPERATING LIMITS REPORT**  
**REVISION 4**

**QA CONDITION 1**

REFERENCE OSC-5581

Prepared by:

*Joe Coletta*

Date:

*3-8-95*

Checked by:

*J. M. Soder*

Date:

*3-8-95*

Approved by:

*R. R. St. Clair*

Date:

*3-9-95*

Oconee Nuclear Station  
Unit 1 Cycle 16  
Core Operating Limits Report  
Insertion Sheet for Revision 4

**Remove these Revision 3 pages**

1-3, 12, 19, 22-25

**Insert these Revision 4 pages**

1-3, 12, 19, 22-25

Oconee Nuclear Station

Unit 1 Cycle 16

Core Operating Limits Report

Revision Log

Revision	Effective Date	Pages Revised	Pages Added	Pages Deleted	Total Effective Pages
0	18-Apr-94	-	1-33	-	33
1	17-May-94	1-4, 5	4a	-	34
2	28-Jun-94	1-3, 10, 17	-	-	34
3	30-Jan-95	1-3, 12, 19, 22-25	-	-	34
4	09-Mar-95	1-3, 12, 19, 22-25	-	-	34

**Oconee 1 Cycle 16**

**POWER-IMBALANCE OPERATIONAL  
LIMITS**

	<b>POWER % OF 2568 MW</b>	<b>IMBALANCE LIMITS</b>
<b>4 PUMP</b>	0.0	-48.5
	80.0	-48.5
	90.0	-46.3
	102.0	-37.7
	102.0	+19.0
	90.0	+32.0
	80.0	+33.8
	0.0	+33.8
<b>3 PUMP</b>	0.0	-48.5
	77.0	-48.5
	77.0	+33.8
	0.0	+33.8

**Referred to by Tech. Spec. 3.5.2.6**

Oconee 1 Cycle 16

**ERROR ADJUSTED POWER-IMBALANCE OPERATIONAL SETPOINTS**

0 EFPD to EOC

	POWER % OF 2568 MW	P-I OPER LIMIT	FULL INCORE ALARM SETPOINT	BACKUP INCORE SETPOINT	OUTCORE ALARM SETPOINT
<b>4 PUMP</b>	0	-48.50	-31.50	-31.50	-31.50
	80	-48.50	-31.50	-31.50	-31.50
	90	-46.30	-29.70	-29.70	-29.70
	102	-37.70	-17.00	-17.00	-17.00
	102	+19.00	+16.80	+9.50	+10.00
	90	+32.00	+29.70	+20.80	+21.30
	80	+33.80	+31.50	+22.70	+23.40
	0	+33.80	+31.50	+22.70	+23.40
<b>3 PUMP</b>	0.00	-48.50	-31.50	-31.50	-31.50
	63.30	-	-31.50	-31.50	-31.50
	77.00	-48.50	-17.00	-17.00	-17.00
	77.00	+33.80	+17.00	+17.00	+17.00
	71.60	-	-	+22.70	-
	71.00	-	-	-	+23.40
	63.30	-	+31.50	-	-
	0.00	+33.80	+31.50	+22.70	+23.40

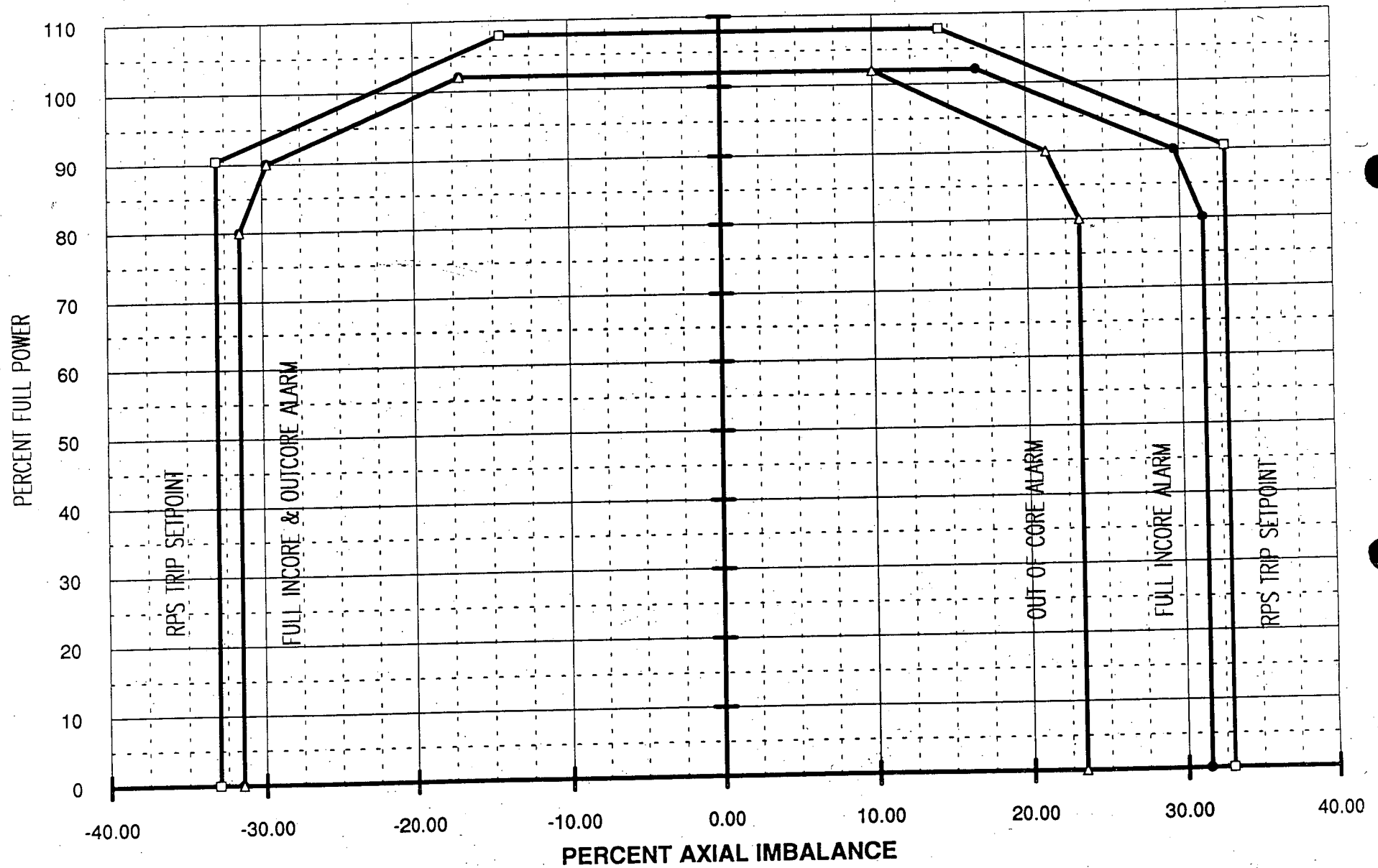
# OCONEE 1 CYCLE 16 IMBALANCE SETPOINTS

## 4 PUMP OPERATION BOC TO EOC

PERCENT OF FULL POWER	R P S	TRIP	FULL INCORE ALARM		OUTCORE ALARM	
107.9	-14.40	14.40				
107	-15.36	15.36				
106	-16.42	16.42				
105	-17.48	17.48				
104	-18.55	18.55				
103	-19.61	19.61				
102	-20.67	20.67	-17.00	16.80	-17.00	10.00
101	-21.73	21.73	-18.06	17.88	-18.06	10.94
100	-22.80	22.80	-19.12	18.95	-19.12	11.88
99	-23.86	23.86	-20.18	20.03	-20.18	12.83
98	-24.92	24.92	-21.23	21.10	-21.23	13.77
97	-25.99	25.99	-22.29	22.18	-22.29	14.71
96	-27.05	27.05	-23.35	23.25	-23.35	15.65
95	-28.11	28.11	-24.41	24.33	-24.41	16.59
94	-29.17	29.17	-25.47	25.40	-25.47	17.53
93	-30.24	30.24	-26.53	26.48	-26.53	18.48
92	-31.30	31.30	-27.58	27.55	-27.58	19.42
91	-32.36	32.36	-28.64	28.63	-28.64	20.36
90.4	-33.00	33.00	-29.28	29.27	-29.28	20.92
90.0	-33.00	33.00	-29.70	29.70	-29.70	21.30
89	-33.00	33.00	-29.88	29.88	-29.88	21.51
88	-33.00	33.00	-30.06	30.06	-30.06	21.72
87	-33.00	33.00	-30.24	30.24	-30.24	21.93
86	-33.00	33.00	-30.42	30.42	-30.42	22.14
85	-33.00	33.00	-30.60	30.60	-30.60	22.35
84	-33.00	33.00	-30.78	30.78	-30.78	22.56
83	-33.00	33.00	-30.96	30.96	-30.96	22.77
82	-33.00	33.00	-31.14	31.14	-31.14	22.98
81	-33.00	33.00	-31.32	31.32	-31.32	23.19
80	-33.00	33.00	-31.50	31.50	-31.50	23.40
79	-33.00	33.00	-31.50	31.50	-31.50	23.40
78	-33.00	33.00	-31.50	31.50	-31.50	23.40
77	-33.00	33.00	-31.50	31.50	-31.50	23.40
76	-33.00	33.00	-31.50	31.50	-31.50	23.40
75	-33.00	33.00	-31.50	31.50	-31.50	23.40
0	-33.00	33.00	-31.50	31.50	-31.50	23.40
PERCENT OF FULL POWER	R P S	TRIP	FULL INCORE ALARM		OUTCORE ALARM	

# OCONEE 1 CYCLE 16 IMBALANCE SETPOINTS 4 PUMP OPERATION -- BOC TO EOC

ONEI-0400-50  
Page 23 of 33 (Rev. 4)



# OCONEE 1 CYCLE 16 IMBALANCE SETPOINTS

3 PUMP OPERATION      BOC TO EOC

PERCENT OF FULL POWER	R P S	TRIP	FULL INCORE ALARM		OUTCORE ALARM	
80.6	-14.40	14.40				
80	-15.04	15.04				
79	-16.10	16.10				
78	-17.16	17.16				
77.0	-18.23	18.23	-17.00	17.00	-17.00	17.00
76	-19.29	19.29	-18.06	18.06	-18.06	18.06
75	-20.35	20.35	-19.12	19.12	-19.12	19.12
74	-21.41	21.41	-20.18	20.18	-20.18	20.18
73	-22.48	22.48	-21.23	21.23	-21.23	21.23
72	-23.54	23.54	-22.29	22.29	-22.29	22.29
71.0	-24.65	24.65	-23.40	23.40	-23.40	23.40
70	-25.67	25.67	-24.41	24.41	-24.41	23.40
69	-26.73	26.73	-25.47	25.47	-25.47	23.40
68	-27.79	27.79	-26.53	26.53	-26.53	23.40
67	-28.85	28.85	-27.58	27.58	-27.58	23.40
66	-29.92	29.92	-28.64	28.64	-28.64	23.40
65	-30.98	30.98	-29.70	29.70	-29.70	23.40
64	-32.04	32.04	-30.76	30.76	-30.76	23.40
63.3	-32.79	32.79	-31.50	31.50	-31.50	23.40
63.1	-33.00	33.00	-31.50	31.50	-31.50	23.40
63	-33.00	33.00	-31.50	31.50	-31.50	23.40
62	-33.00	33.00	-31.50	31.50	-31.50	23.40
61	-33.00	33.00	-31.50	31.50	-31.50	23.40
60	-33.00	33.00	-31.50	31.50	-31.50	23.40
0	-33.00	33.00	-31.50	31.50	-31.50	23.40
PERCENT OF FULL POWER	R P S	TRIP	FULL INCORE ALARM		OUTCORE ALARM	



# OCONEE 1 CYCLE 16 IMBALANCE SETPOINTS 3 PUMP OPERATION -- BOC TO EOC

ONEI-0400-50  
Page 25 of 33 (Rev. 4)

