



FirstEnergy Nuclear Operating Company

Peter P. Sena III
Site Vice President

724-682-5234
Fax: 724-643-8069

August 29, 2007
L-07-115

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Core Operating Limits Report, COLR 18-4

FirstEnergy Nuclear Operating Company (FENOC) hereby submits revisions of the Core Operating Limits Report (COLR) for Beaver Valley Power Station (BVPS) Unit No. 1 as required by Section 5.6.3 of the BVPS Technical Specifications. The BVPS Unit No. 1 COLR 18-4 is enclosed.

The revisions to the Unit No. 1 COLR, effective August 23, 2007, were made to provide additional margin to the F_Q limits during the remainder of Unit 1 Cycle 18.

No regulatory commitments are contained in this submittal. If there are questions, or additional information is required, please contact Mr. Thomas A. Lentz, Manager – FENOC Fleet Licensing, at 330-761-6071.

Sincerely,

Peter P. Sena III

Enclosure:

Beaver Valley Power Station Unit No. 1, Core Operating Limits Report, COLR 18-4

c: Ms. N. S. Morgan, NRR Project Manager
Mr. D. L. Werkheiser, NRC Senior Resident Inspector
Mr. S. J. Collins, NRC Region I Administrator
Mr. D. J. Allard, Director BRP/DEP
Mr. L. E. Ryan (BRP/DEP)

A001
NRK

L-07-115 Enclosure

Beaver Valley Power Station

Unit No. 1

Core Operating Limits Report

COLR 18-4

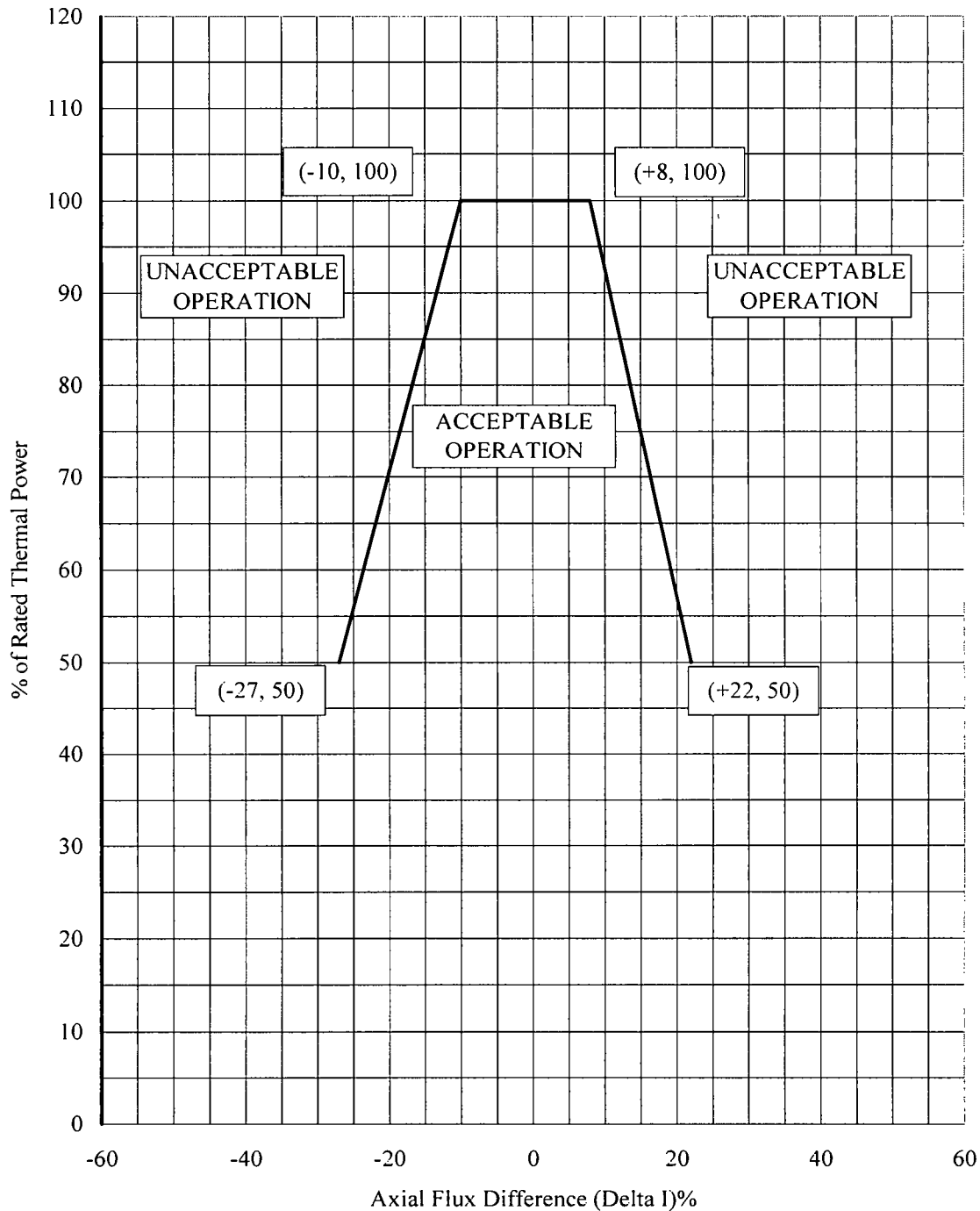


Figure 5.1-4 (Page 1 of 1)

AXIAL FLUX DIFFERENCE LIMITS AS A FUNCTION OF
PERCENT OF RATED THERMAL POWER FOR RAOC

Table 5.1-1 (Page 1 of 2)
F_Q Surveillance W(Z) Function versus Burnup

Exclusion Zone	Axial Point	Elevation (feet)	10000 MWD/MTU	16000 MWD/MTU
*	1	12.0	1.0000	1.0000
*	2	11.8	1.0000	1.0000
*	3	11.6	1.0000	1.0000
*	4	11.4	1.0000	1.0000
*	5	11.2	1.0000	1.0000
*	6	11.0	1.0000	1.0000
*	7	10.8	1.0000	1.0000
	8	10.6	1.2688	1.2571
	9	10.4	1.2580	1.2447
	10	10.2	1.2442	1.2306
	11	10.0	1.2312	1.2115
	12	9.8	1.2182	1.1896
	13	9.6	1.2035	1.1861
	14	9.4	1.1994	1.1898
	15	9.2	1.2010	1.1960
	16	9.0	1.1999	1.1993
	17	8.8	1.2095	1.2041
	18	8.6	1.2250	1.2136
	19	8.4	1.2386	1.2269
	20	8.2	1.2489	1.2403
	21	8.0	1.2563	1.2505
	22	7.8	1.2608	1.2576
	23	7.6	1.2623	1.2619
	24	7.4	1.2611	1.2632
	25	7.2	1.2572	1.2618
	26	7.0	1.2507	1.2577
	27	6.8	1.2419	1.2512
	28	6.6	1.2309	1.2422
	29	6.4	1.2178	1.2311
	30	6.2	1.2029	1.2181

Note: Top and Bottom 10% Excluded

Table 5.1-1 (Page 2 of 2)
F_Q Surveillance W(Z) Function versus Burnup

Exclusion Zone	Axial Point	Elevation (feet)	10000 MWD/MTU	16000 MWD/MTU
	31	6.0	1.1865	1.2026
	32	5.8	1.1683	1.1887
	33	5.6	1.1523	1.1784
	34	5.4	1.1421	1.1706
	35	5.2	1.1337	1.1638
	36	5.0	1.1239	1.1558
	37	4.8	1.1158	1.1476
	38	4.6	1.1114	1.1405
	39	4.4	1.1081	1.1337
	40	4.2	1.1043	1.1260
	41	4.0	1.0999	1.1177
	42	3.8	1.0960	1.1088
	43	3.6	1.0934	1.0997
	44	3.4	1.0912	1.0919
	45	3.2	1.0911	1.0872
	46	3.0	1.0955	1.0899
	47	2.8	1.1088	1.1050
	48	2.6	1.1236	1.1183
	49	2.4	1.1384	1.1319
	50	2.2	1.1530	1.1456
	51	2.0	1.1674	1.1590
	52	1.8	1.1813	1.1722
	53	1.6	1.1944	1.1848
	54	1.4	1.2062	1.1965
*	55	1.2	1.0000	1.0000
*	56	1.0	1.0000	1.0000
*	57	0.8	1.0000	1.0000
*	58	0.6	1.0000	1.0000
*	59	0.4	1.0000	1.0000
*	60	0.2	1.0000	1.0000
*	61	0.0	1.0000	1.0000

Note: Top and Bottom 10% Excluded