Advanced Test Reactor
FY10
Integrated Strategic Operational Plan

Rev. 3

2/9/2010

FY10 Annual Test Plan

Cycle	145B		146A		146B		147A		148A	
	Outage	EFPD	Outage	EFPD	Outage	EFPD	Outage	EFPD	Outage	EFPD
Duration (days)	14	56	14	56	14	49	14	49	14	56
Planned Start	11/7/2009	11/21/2009	1/23/2010	2/6/2010	4/3/2010	4/17/2010	6/5/2010	6/19/2010	8/7/2010	8/21/2010
Planned Finish	11/20/2009	1/22/2010	2/5/2010	4/2/2010	4/16/2010	6/4/2010	6/18/2010	8/6/2010	8/20/2010	10/15/2010
NE Lobe Power, MW	18.0 +1.5/-2.0		18.0 +1.5/-2.0		18.0 +1.5/-2.0		18.0 +1.5/-2.0		18.0 +1.5/-2.0	
SE Lobe Power, MW	25.0 +3.0/-3.0		26.0 +2.0/-4.0		26.0 +2.0/-4.0		23.0 +3.0/-3.0		23.0 +3.0/-3.0	
SW Lobe Power, MW	23.0 +3.0/-3.0		25.0 +1.0/-5.0		23.0 +3.0/-3.0		23.0 +3.0/-3.0		23.0 +3.0/-3.0	
NW Flux Trap	18.0 +3.0/-3.0		18.0 +3.0/-3.0		23.0 +1.0/-5.0		23.0 +1.0/-5.0		18.0 +3.0/-3.0	
SE Flux Trap	SE-190 cont.						SE-218 (Std Backup)		SE-191	
SW Flux Trap	SW-183 cont.				SW-218 (Std Backup)		SW-184			
NW Flux Trap	NW-157 cont.		NW-100 (Backup)		NW-159 (90-100 EFPD)				NW-100 (Backup)	
North Flux Trap	N-100 cont.		N-104							
West Flux Trap	W-73 cont.		W-74							
NE Flux Trap	MICE 8A/8B cont.									
Center Flux Trap					AFIP-6A/B				AFIP-7	
East Flux Trap -1	AFC-2D cont.									
East Flux Trap -2	AFC-2E cont.									
East Flux Trap -3	AFC-2C cont.		GFR-F1-2							
East Flux Trap -4	UW-1				UW-2					
East Flux Trap -5										
East Flux Trap-6										
East Flux Trap-7	NCSU-D/B cont.									
South Flux Trap	AGC-1 cont.						Rotate 180°			
Driver Position										
A1-A8	WFO									
A9	WFO									
A10	UCSB-1-2						WFO			
A11	UI-1-2		UI-1-3		UI-1-4		UI-1-5		UI-1-6	
A12	WFO									
A13							EPRI-ZG-A			
A14							EPRI-ZG-C			
A15							EPRI-ZG-D			
A16							EPRI-ZG-B			
B1	UF-1B/C									
B2	TMIST-2 cont.								USU-1	
B3-B6	WFO									
B7 (HSIS)										
B8										
B9							RERTR-11-1			
B10							RERTR-13			
B11			RERTR-12-1		RERTR-12-2		RERTR-12-3		RERTR-12-4	
B12							AGR-2			
H1, H2, H4-H10	WFO									
H12-H16	WFO									
I9										
I23										
I13										

For Approval

For Approval

Center Lobe Power[1], MW		25.8/29.0		28.5/31.5		31.1/34.1		28.5/31.5		24.0/27.3
North Lobe Power[1], MW		20.6/23.2		21.5/24.0		24.0/25.9		23.2/25.0		20.0/22.6
West Lobe Power[1], MW		22.3/25.3		23.8/26.2		25.7/28.0		24.8/27.2		21.7/24.8
East Lobe Power[1], MW		22.9/25.5		24.2/26.3		25.0/27.2		23.2/25.7		21.7/24.3
South Lobe Power[1], MW		24.6/27.7		26.5/28.5		26.7/29.4		24.8/27.8		23.3/26.4
Upgrades / Maintenance										
2A Reactivation										
DCS/CDS Replacement										
2E-NW Pump Replacement										
M-2/M-4 Heat Exchanger										

For Information

For Information

[1] Estimated Nominal and Maximum Startup Powers for design purposes only (Ref TEV-288)

Experiment Sponsor

- Naval Reactors
- NSUF Program Office
- NGNP
- AFCI
- NNSA
- Other

Reviewed: [signature] for 2-9-10
NSUF Scientific Director

Approved: [signature] 2-9-10
Director, ATR Programs

Concur: M. E. Stengel 2-11-10
NR Representative, Bettis

Concur: [signature]
ATR Complex Team Leader, DOE-ID

Advanced Test Reactor
FY10
Integrated Strategic Operational Plan

Revision 3 2/9/2010

Revision Log

Revision	Date	Description
0	9/15/2009	Initial Release
1	10/19/2009	Due to unplanned outages in cycle 145A, delayed start of cycle 145B to 11/7/2009 Delayed insertion of RERTR-11 to cycle 146B Extended TMIST-2 irradiation through cycle 146A Specified AGC-1 Rotation in cycle 147A Delayed insertion of RERTR-12 to cycle 146A Delayed insertion of RERTR-FE to FY2011 (Cycle TBD pending completion of project schedule)
2	12/15/2009	Due to unplanned outage in cycle 145B, delayed start of cycle 146A to 1/23/2010 Delayed insertion of AFIP-6A/B from 146A to 146B Delayed reconfiguation of University of Wisconsin from 146A to 146B Changed AFC-2C completion from 146B to 145B Delayed RERTR-13 insertion from 146A to 146B Delayed Pu-238 insertion from 148A to FY2011
3	2/9/2010	Delayed insertion of EPRI-ZG-A/ B/ C/ & D from 146B to 147A Delayed insertion of RERTR-11-1 from 146B to 147A and subsequent insertion of RERTR-11-2 from 148A to 148B (FY11) Delayed insertion of RERTR-13 from 146B to 147A Delayed insertion of AGR-2 from 146B to 147A