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GE Nuclear Energy

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October 25, 1995

MFN 245-95
Docket 52-004

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

Attention: Theodore E. Quay, Director
Standardization Project Directorate

Subject: **SBWR - PANTHERS/IC Apparent Test Results (ATRs), Phase 1
(Non-Proprietary)**

Reference: 1. Letter from J. E. Quinn (GE) to T. E. Quay (NRC), *SBWR -
Updated Status of Test Documentation Submittals*,
MFN 125-95, July 24, 1995.

The attachment to this letter supplies the PANTHERS/IC Apparent Test Results (ATRs),
Phase 1, which satisfies Item 56 of Reference 1.

Sincerely,


James E. Quinn,
Projects Manager

Attachment: *PANTHERS/IC Apparent Test Results (ATRs) Reports for tests: HSD03,
HSD09, HSD10, HSD12, T02, T03, T04, T05, T06, T07_1, T08, T09, T10, T11, T14, T15,
T17_A, T17_B, T17_C, T17_D, and T17_E.*

cc:

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01 Aug. 1995	Issue	R. Silveri	S. Botti	P. Masoni BY LETTER INT 2543	1	1/4

SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : Shakedown NUMBER : HSD03 TEST DATE : 06 July 1995

TEST OBJECTIVE :

Measure the heat loses in the steam inlet line at 4 MPa.

DATA RECORDING PERIOD

Start : 16:17 Stop : 16:44

REFERENCE TEST TIME

Start : 16:17 Stop : 16:42

DATA FILE NAMES

Historic TH values: SH060795.STO
TH quantities: HSD03.DAT

TM quantities: not recorded
Vibrations: not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-N001	T-1001	T-1002	T-2001	T-Q010
T-Q014	T-Q021	F-2001	P-E001	DP004
LDT001	LDT002	LDT003	All accelerometers	

ZERO NOT IN TOLLERANCE INSTRUMENTS :

DP001	DP006	DP008	DP020	DP021
DP023	DP025	DP028	DP029	DPEFM1
DP-I001	DP-Q005	DP-Q006	F-A001\ a	F-A001\ b
L-H001	L-I001	P-A002\ a	P-F001	

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010	DP012	L-P001	L-Q001	L-Q002
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OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS :

Loss of steam on the steam vessel inlet flange. This dose not effect the test results.

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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01 Aug. 1995	Issue	R. Silverii	S. Boti	By LETTER P. Masoni 19/07 2543	1	14

SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : Shakedown NUMBER : HSD09 TEST DATE : 19 July 1995

TEST OBJECTIVE :

- Part 1 - Measure the heat loses in the steam inlet line at 8 Mpa
- Part 2 - Measure the effect of small leakage of Drain Valves F117 and F136

DATA RECORDING PERIOD

Start : 16:53 Stop : 18:14

REFERENCE TEST TIME

Part 1 Start : 16:54 Stop : 17:08
Part 2 Start : 17:40 Stop : 18:14

DATA FILE NAMES

Historic TH values: SH190795.STO
TH quantities: HSD09.DAT

TM quantities: HSDTM09.DAT
Vibrations: not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	DP004	LDT001	LDT002	LDT003

All accelerometers

ZERO NOT IN TOLLERANCE INSTRUMENTS :

DP004	DP005	DP006	DP029	DPEFM1
DP-I001	L-A001	L-I001		

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010	DP012	L-P001	L-Q001	L-Q002
DP-Q005	DP-Q006			

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS :

- Valve F131 was out of order and therefore bypassed for this test.
- Part 2 has been performed with IC pool level lower than requested

HAS THE TEST OBJECTIVE BEEN REACHED ?

Part 1: YES
Part 2: NO

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : Shakedown NUMBER : HSD10 TEST DATE : 26 July 1995

TEST OBJECTIVE :

Measure the effect o. small leakage of Drain Valves F117 and F136

DATA RECORDING PERIOD

Start : 16:37 Stop : 17:04

REFERENCE TEST TIME

Start : 16:37 Stop : 17:04

DATA FILE NAMES

Historic TH values: SH260795.STO
TH quantities: HSD10.DAT

TM quantities: HSDTM10.DAT
Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

F-2001	DP004	L-P001	T-1001	T-1002
T-2001	LDT001	LDT002	LDT003	All accelerometers
T-Q010	T-Q014	T-Q021		

ZERO NOT IN TOLLERANCE INSTRUMENTS :

DP001 DP006 DP026 DP-I001

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010 DP012 DP-Q005 DP-Q006 L-Q001
L-Q001 L-1001

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : Shakedown NUMBER : HSD12 TEST DATE : 26 July 1995

TEST OBJECTIVE :

Verify the adequacy of the facility for IC start-up tests

DATA RECORDING PERIOD

Start : 18:27 Stop : 19:43

REFERENCE TEST TIME

Start : 18:27 Stop : 19:43

DATA FILE NAMES

Historic TH values: SH260795.STO
TH quantities: HSD12.DAT

TM quantities: HSDTM12.DAT
Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

F-2001	DP004	L-P001	T-1001	T-1002
T-2001	LDT001	LDT002	LDT003	All accelerometers
T-Q010	T-Q014	T-Q021		

ZERO NOT IN TOLLERANCE INSTRUMENTS :

DP001 DP006 DP026 DP-I001

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010 DP012 DP-Q005 DP-Q006 L-Q001
L-Q001 L-I001

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS :

Loud booms were heard when the drain valve was opened. This is probably due to a too short valve opening time.

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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27 Sep. 1995	Issue	R. Silverii	S. Botti	BY LETTER P. Masoni PROT. 2543	1	13

SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 1 NUMBER : T02 TEST DATE : 27 Sep. 1995

TEST OBJECTIVE :
Measure the IC performance in steady-state conditions at fixed inlet pressure.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 12:45 Stop : 13:22	Start : 12:45 Stop : 13:15

DATA FILE NAMES

Historic TH values:	TH270995.STO	TM quantities:	T02TM02.DAT
TH quantities:	T02TH2.DAT	Vibrations tape n.	001

FAILED OR UNAVAILABLE INSTRUMENTS:

T-Q010	T-Q014	T-Q021	DX-A009	DX-B015
DX-BB003				

ZERO NOT IN TOLLERANCE INSTRUMENTS :
The zero check is not significant because all lines, pools and tanks were full or in pressure.

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :
The zero check is not significant because all lines, pools and tanks were full or in pressure.

OVER RANGE SIGNALS :
F-R001

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA		PANTHERS-IC APPARENT TEST RESULT				
TEST TYPE : 1		NUMBER : T03		TEST DATE : 26 Sep. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 17:11 Stop : 17:42			REFERENCE TEST TIME Start : 17:11 Stop : 17:42			
DATA FILE NAMES Historic TH values: TH260995.STO TM quantities: T03TM01.DAT TH quantities: T03TH1.DAT Vibrations tape n. 001						
FAILED OR UNAVAILABLE INSTRUMENTS: T-Q010 T-Q014 T-Q021 DX-A009 DX-B015 DX-BB003						
ZERO NOT IN TOLLERANCE INSTRUMENTS : DP030 DP-I001 F-M001 L-0001 P-H001						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL : DP-Q005 DP-Q006 L-I001 L-P001 L-Q001 L-Q002 DP010 DP011						
OVER RANGE SIGNALS : NONE						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA	PANTHERS-IC APPARENT TEST RESULT					
TEST TYPE : 1		NUMBER : T04		TEST DATE : 20 Sep. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 15:06 Stop : 15:36			REFERENCE TEST TIME Start : 15:06 Stop : 15:36			
DATA FILE NAMES						
Historic TH values: TH200995.STO		TM quantities: T04TM01.DAT				
TH quantities: T04TH1.DAT		Vibrations tape n. 001				
FAILED OR UNAVAILABLE INSTRUMENTS:						
T-Q010 DX-BB003		T-Q014		T-Q021 DX-A009 DX-B015		
ZERO NOT IN TOLLERANCE INSTRUMENTS : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
OVER RANGE SIGNALS : DP-Q006						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA		PANTHERS-IC APPARENT TEST RESULT				
TEST TYPE : 1		NUMBER : T05		TEST DATE : 20 Sep. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 13:58 Stop : 14:30				REFERENCE TEST TIME Start : 14:00 Stop : 14:30		
DATA FILE NAMES Historic TH values: TH200995.STO TM quantities: T05TM01.DAT TH quantities: T05TH1.DAT Vibrations tape n. 001						
FAILED OR UNAVAILABLE INSTRUMENTS: T-Q010 T-Q014 T-Q021 DX-A009 DX-B015 DX-BB003						
ZERO NOT IN TOLLERANCE INSTRUMENTS : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
OVER RANGE SIGNALS : DP-Q006						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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GIET SpA	PANTHERS-IC APPARENT TEST RESULT					
TEST TYPE : 1		NUMBER : T06		TEST DATE : 20 Sep. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 12:59 Stop : 13:29				REFERENCE TEST TIME Start : 12:59 Stop : 13:29		
DATA FILE NAMES Historic TH values: TH200995.STO TM quantities: T06TM02.DAT TH quantities: T06TH2.DAT Vibrations tape n. 001						
FAILED OR UNAVAILABLE INSTRUMENTS: T-Q010 T-Q014 T-Q021 DX-A009 DX-B015 DX-BB003						
ZERO NOT IN TOLLERANCE INSTRUMENTS : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL : The zero check is not significant because all lines, pools and tanks were full or in pressure.						
OVER RANGE SIGNALS : DP-Q006						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA		PANTHERS-IC APPARENT TEST RESULT				
TEST TYPE : 1		NUMBER : T07_1		TEST DATE : 26 Sep. 1995		
TEST OBJECTIVE : Repeat Test T07.						
DATA RECORDING PERIOD Start : 14:59 Stop : 15:29				REFERENCE TEST TIME Start : 14:59 Stop : 15:29		
DATA FILE NAMES						
Historic TH values: TH260995.STO		TM quantities: T07TM04.DAT				
TH quantities: T07TH4.DAT		Vibrations tape n. 001				
FAILED OR UNAVAILABLE INSTRUMENTS:						
T-Q010	T-Q014	T-Q021	DX-A009	DX-B015		
DX-BB003						
ZERO NOT IN TOLLERANCE INSTRUMENTS :						
DP030	DP-I001	F-M001	L-0001			
	P-H001					
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :						
DP-Q005	DP-Q006	L-I001	L-P001	L-Q001		
L-Q002	DP010	DP011				
OVER RANGE SIGNALS :						
DP-Q006						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 1 NUMBER : T08 TEST DATE : 02 Aug. 1995

TEST OBJECTIVE :
Measure the IC performance in steady-state conditions at fixed inlet pressure.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 19:26 Stop : 19:57	Start : 19:26 Stop : 19:57

DATA FILE NAMES

Historic TH values: TH020895.STO	TM quantities: T08TM01.DAT
TH quantities: T08TH1.DAT	Vibrations tape n. 001

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001			

ZERO NOT IN TOLLERANCE INSTRUMENTS :
DP030

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010	DP012	DP-Q001	DP-Q006	L-0001
L-P001	L-Q001			

OVER RANGE SIGNALS :
DP001 DP-Q006

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 1 NUMBER : T09 TEST DATE : 02 Aug. 1995

TEST OBJECTIVE :
Measure the IC performance in steady-state conditions at fixed inlet pressure.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 18:11 Stop : 18:42	Start : 18:11 Stop : 18:42

DATA FILE NAMES

Historic TH values: TH020895.STO	TM quantities: T09TM01.DAT
TH quantities: T09TH1.DAT	Vibrations tape n. 001

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001			

ZERO NOT IN TOLLERANCE INSTRUMENTS :
DP030

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP010	DP012	DP-Q001	DP-Q006	L-Q001
L-P001	L-Q001			

OVER RANGE SIGNALS :
DP001 DP-Q006

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA	PANTHERS-IC APPARENT TEST RESULT					
TEST TYPE : 1		NUMBER : T10		TEST DATE : 02 Aug. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 17:05 Stop : 17:35				REFERENCE TEST TIME Start : 17:05 Stop : 17:35		
DATA FILE NAMES Historic TH values: TH020895.STO TM quantities: T10TM01.DAT TH quantities: T10TH1.DAT Vibrations tape n. 001						
FAILED OR UNAVAILABLE INSTRUMENTS: T-1001 T-1002 T-2001 T-Q010 T-Q014 T-Q021 F-2061						
ZERO NOT IN TOLLERANCE INSTRUMENTS : DP030						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL : DP010 DP012 DP-Q001 DP-Q006 L-0001 L-P001 L-Q001						
OVER RANGE SIGNALS : DP-Q006						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS : NONE						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA	PANTHERS-IC APPARENT TEST RESULT					
TEST TYPE : 1		NUMBER : T11		TEST DATE : 02 Aug. 1995		
TEST OBJECTIVE : Measure the IC performance in steady-state conditions at fixed inlet pressure.						
DATA RECORDING PERIOD Start : 15:37 Stop : 16:07				REFERENCE TEST TIME Start : 15:37 Stop : 16:07		
DATA FILE NAMES						
Historic TH values: TH020895.STO		TM quantities: T11TM02.DAT		Vibrations tape n. 001		
TH quantities: T11TH2.DAT						
FAILED OR UNAVAILABLE INSTRUMENTS:						
T-1001	T-1002	T-2001	T-Q010	T-Q014		
T-Q021	F-2001					
ZERO NOT IN TOLLERANCE INSTRUMENTS :						
DP030						
ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :						
DP010	DP012	DP-Q001	DP-Q006	L-0001		
L-P001	L-Q001					
OVER RANGE SIGNALS : NONE						
DEVIATIONS FROM TEST PROCEDURES : NONE						
PROBLEMS AND DISFUNCTIONS :						
Displacement signals (LVDT) have been acquired in volts.						
HAS THE TEST OBJECTIVE BEEN REACHED ? YES						
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES						

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 4 NUMBER : T14 TEST DATE : 03 Aug. 1995

TEST OBJECTIVE :
Measure the effect of pool water level decrease/increase at 0.58 MPa initial pressure.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 11:27 Stop : 19:24	Start : 11:27 Stop : 19:24

DATA FILE NAMES

Historic TH values: TH030895.STO	TM quantities: T14TM02÷10.DAT
TH quantities: T14TH2÷10.DAT	Vibrations tape n. 001

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001			

ZERO NOT IN TOLLERANCE INSTRUMENTS : NONE

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP002	DP003	DP004	DP005	DP006
DP008	DP011	DP012	DP010	DP007
DP009	DP020	DP021	DP025	DP027
DP029	DP022	DP023	DP024	DP026
DP028	DP030	DP-Q005	DP-Q006	L-A001
L-H001	L-I001	L-O001	L-P001	L-Q001
L-Q002	P-I002	P-A002\va	P-A002\b	P-A003\va
P-A003\vb	P-B001\va	P-B001\vb	P-E001	P-I001

OVER RANGE SIGNALS :
DP001

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 4 NUMBER : T15 TEST DATE : 04 Aug. 1995

TEST OBJECTIVE :
Measure the effect of pool water level decrease/increase at 2.17 MPa initial pressure.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 10:42 Stop : 17:21	Start : 10:42 Stop : 17:21

DATA FILE NAMES

Historic TH values: TH040895.STO	TM quantities: T15TM02+17.DAT
TH quantities: T15TH2+17.DAT	Vibrations tape n. 001

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001			

ZERO NOT IN TOLLERANCE INSTRUMENTS : NONE

ZERO NOT CHECKED BECAUSE OF LINES, TANKS OR POOLS FULL :

DP002	DP003	DP004	DP005	DP006
DP008	DP011	DP012	DP010	DP007
DP009	DP020	DP021	DP025	DP027
DP029	DP022	DP023	DP024	DP026
DP028	DP030	DP-Q005	DP-Q006	L-A001
L-H001	L-I001	L-O001	L-P001	L-Q001
L-Q002	P-IG02	P-A002\va	P-A002\vb	P-A003\va
P-A003\vb	P-B001\va	P-B001\vb	P-E001	P-I001

OVER RANGE SIGNALS :
DP001

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS :
At apprximately 12:28 when the level in the PCC pool was 1.7 m, a high temperature alarm caused an automatic inlet steam shutdown.

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA	PANTHERS-IC APPARENT TEST RESULT
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TEST TYPE : 6	NUMBER : T17_A	TEST DATE : 30 Aug. 1995
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TEST OBJECTIVE :
Perform Heatup/Cooldown cycles without IC operation at maximum rate of 100°C/hour and maximum pressure 8720 kPa.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 11:10 Stop : 15:41	Start : 11:10 Stop : 15:41

DATA FILE NAMES

Historic TH values: TH300895.STO	TM quantities: T17TMA1÷6.DAT
TH quantities: T17THA1÷6.DAT	Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001	DX-A009	DX-BB003	DX-B015

OVER RANGE SIGNALS :
PO-A002

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

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SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 6 NUMBER : T17_B TEST DATE : 31 Aug. 1995

TEST OBJECTIVE :

Perform Heatup/Cooldown cycles without IC operation at maximum rate of 100°C/hour and maximum pressure 8720 kPa.

DATA RECORDING PERIOD

Start : 10:42 Stop : 15:17

REFERENCE TEST TIME

Start : 10:42 Stop : 15:17

DATA FILE NAMES

Historic TH values: TH310895.STO TM quantities: T17TMB1+11.DAT
 TH quantities: T17THB1+11.DAT Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001 T-1002 T-2001 T-Q010 T-Q014
 T-Q021 F-2001 DX-A009 DX-BB003

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

Date	Description	Prepared by	Checked by	Approved by	Page	Of
05 Sep. 1995	Issue	R. Silverii	S. Botta	BY LETTER P. Masoni FAC. 2543	1	13

SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 6 NUMBER : T17_C TEST DATE : 01 Sep. 1995

TEST OBJECTIVE :
Perform Heatup/Cooldown cycles without IC operation at maximum rate of 100°C/hour and maximum pressure 8720 kPa.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 10:06 Stop : 15:14	Start : 10:06 Stop : 15:14

DATA FILE NAMES

Historic TH values: TH010995.STO	TM quantities: T17TMC1÷7.DAT
TH quantities: T17THC1÷7.DAT	Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001	DX-A009	DX-BB003	

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

Date	Description	Prepared by	Checked by	Approved by	Page	Of
05 Sep. 1995	Issue	R. Silverii	S. Botti	BY LETTER P. Masoni T.M.T. 254.3	1	1/3

SIET SpA PANTHERS-IC APPARENT TEST RESULT

TEST TYPE : 6 NUMBER : T17_D TEST DATE : 04 Sep. 1995

TEST OBJECTIVE :
Perform Heatup/Cooldown cycles without IC operation at maximum rate of 100°C/hour and maximum pressure 8720 kPa.

DATA RECORDING PERIOD	REFERENCE TEST TIME
Start : 10:23 Stop : 15:23	Start : 10:23 Stop : 15:23

DATA FILE NAMES

Historic TH values: TH040995.STO	TM quantities: T17TMD1÷5.DAT
TH quantities: T17THD1÷5.DAT	Vibrations tape n. not recorded

FAILED OR UNAVAILABLE INSTRUMENTS:

T-1001	T-1002	T-2001	T-Q010	T-Q014
T-Q021	F-2001	DX-A009	DX-BB003	

OVER RANGE SIGNALS : NONE

DEVIATIONS FROM TEST PROCEDURES : NONE

PROBLEMS AND DISFUNCTIONS : NONE

HAS THE TEST OBJECTIVE BEEN REACHED ? YES

HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES

Date	Description	Prepared by	Checked by	Approved by	Page	Of
07 Sep. 1995	Issue	R. Silverii	S. Botta	BY LETTER P. Masoni PRST. 2543	1	13

SIET SpA	PANTHERS-IC APPARENT TEST RESULT				
TEST TYPE : 6	NUMBER : T17_E	TEST DATE : 05 Sep. 1995			
TEST OBJECTIVE :					
Perform Heatup/Cooldown cycles without IC operation at maximum rate of 100°C/hour and maximum pressure 8720 kPa.					
DATA RECORDING PERIOD			REFERENCE TEST TIME		
Start : 10:02	Stop : 14:59	Start : 10:02	Stop : 14:59		
DATA FILE NAMES					
Historic TH values:	TH050995.STO	TM quantities:	T17TME1+5.DAT		
TH quantities:	T17THE1+5.DAT	Vibrations tape n.	not recorded		
FAILED OR UNAVAILABLE INSTRUMENTS:					
T-1001	T-1002	T-2001	T-Q010	T-Q014	
T-Q021	F-2001	DX-A009	DX-BB003		
OVER RANGE SIGNALS : NONE					
DEVIATIONS FROM TEST PROCEDURES : NONE					
PROBLEMS AND DISFUNCTIONS : NONE					
HAS THE TEST OBJECTIVE BEEN REACHED ? YES					
HAVE THE MEASUREMENTS BEEN CORRECTLY RECORDED ? YES					