

STARTUP TEST PROCEDURE 9

WATER LEVEL MEASUREMENT

1. PURPOSE

A. The purpose of this test is as follows:

1. To check the calibration of the various narrow range and wide range indicators.
2. To measure the reference leg temperature and recalibrate the narrow and wide range instruments if the measured temperature is different than the value assumed during the initial calibration.
3. To collect plant data which can be used to investigate the effects of core flow velocity, carry-under, and subcooling on indicated wide range level.

2. CRITERIA

Level 2

- A. The narrow range level indicator readings on the instruments used for feedwater level control (1C34-R606A-C) should agree within ± 1.5 inches of their average reading.
- B. The narrow range level indicator readings on the instruments not used for feedwater level control (1B21-N024A-D, 1B21-N038A-B, 1B21-N100A-B, and 1B21-N101A-B) should agree within ± 3.0 inches of their average reading.
- C. The wide range level system indicators (1B21-N026A-D, 1B21-N031A-D, 1B21-N036A-D, 1B21-N037A-D, 1B21-R604, 1C61-R010, 1B21-R623A-B) should agree within ± 6 inches of the average reading.

3. RESULTS

Test Condition 3.

All narrow and wide range level instruments satisfied their respective level 2 criteria (see Table 1).

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Table 1

Wide Range Level Instruments (Test Condition 3)

INDICATOR	READING *	WR. AVE*	ACCEPTANCE CRITERIA*	ACTUAL DEVIATION FROM AVERAGE *
1B21-N036C	26.0	26.65	± 6.0	-0.65
1B21-N026B	28.5	26.65	± 6.0	+1.85
1B21-N037B	28.0	26.65	± 6.0	+1.35
1B21-N036D	26.0	26.65	± 6.0	-0.65
1B21-N037D	26.0	26.65	± 6.0	-0.65
1B21-N026C	26.5	26.65	± 6.0	-0.15
1B21-N031B	25.5	26.65	± 6.0	-1.15
1B21-N031D	27.5	26.65	± 6.0	+0.85
1B21-N036A	23.0	26.65	± 6.0	-3.65
1B21-N037C	25.0	26.65	± 6.0	-1.65
1B21-N037A	23.5	26.65	± 6.0	-3.15
1B21-N026D	25.5	26.65	± 6.0	-1.15
1B21-N036B	25.0	26.65	± 6.0	-1.65
1B21-N026A	28.0	26.65	± 6.0	+1.35
1B21-N031A	30.0	26.65	± 6.0	+3.35
1B21-N031C	26.0	26.65	± 6.0	-0.65
1B21-R623A R884A	26.0	26.65	± 6.0	-0.65
1B21-R623B R884B	27.0	26.65	± 6.0	+0.35
1B21-R604	32.0	26.65	± 6.0	+5.35
1C61-R010	28.0	26.65	± 6.0	+1.35

* All Data have units in inches

Table 1

Narrow Range Level Instruments (Test Condition 3)

Indicator	Reading*	Ave.*	Acceptance Criteria*	Actual Deviation From Ave.*
1B21-N024A	35	34.01	± 3.0	+0.99
1B21-N024B	35.5	34.01	± 3.0	+1.49
1B21-N024C	35.5	34.01	± 3.0	+1.49
1B21-N024D	32.5	34.01	± 3.0	-1.51
1B21-N038A	31.25	34.01	± 3.0	-2.76
1B21-N038B	32.9	34.01	± 3.0	-1.11
1B21-N100A	36.9	34.01	± 3.0	+2.89
1B21-N100B	34.25	34.01	± 3.0	+0.24
1B21-N101A	32.25	34.01	± 3.0	-1.76
1B21-N101B	34	34.01	± 3.0	-0.01

Narrow Range Level Instruments (Test Condition 3)

Indicator	Reading*	Ave.*	Acceptance Criteria*	Actual Deviation From Ave.*
1C34-R606A	36	36.33	± 1.5	-0.33
1C34-R606B	36	36.33	± 1.5	-0.33
1C34-R606C	37	36.33	± 1.5	+0.67