

## STARTUP TEST PROCEDURE 33

### DRYWELL PIPING VIBRATION

#### 1. PURPOSE

- A. The purpose of this test is to verify that the main steam, reactor recirculation, and feedwater piping have acceptable vibration.

#### 2. CRITERIA

##### Level 1.

- A. The measured amplitude for vibration of the recirculation system during recirculation pump trips and subsequent coast down shall not exceed the allowable values.
- B. The measured amplitude for vibration of the main steam lines during relief valve operation shall not exceed allowable values.
- C. The measured amplitude for steady state vibration of the recirculation and main steam systems shall not exceed allowable values.
- D. The measured amplitude for vibration of the main steam lines due to turbine stop valve trip and relief valve operation shall not exceed allowable values.

##### Level 2.

- A. The measured amplitude of vibration of the main steam system following relief valve operation and turbine stop valve trip should not exceed the expected values.
- B. The measured amplitude of vibration of the main steam and recirculation systems during steady state operation should not exceed the expected values.
- C. The measured vibrational stresses induced in the feedwater system following trip of one and both turbine driven feed pumps and during steady state operations should not exceed the expected stresses.

#### 3. RESULTS

##### Test Condition 3.

Steady state vibration measurements were performed, and the results were satisfactory. Further testing will be performed in Test Condition 3 in conjunction with relief valve testing, main turbine trip, and recirc pump trip and start.

8307050233 830624  
PDR ADOCK 05000373  
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