

Activity: Instrument Calibration (Installed)

1.0 Purpose: This guideline provides a method to evaluate a plant's practices for the calibration controls to be applied to installed instrumentation.

2.0 Scope: This guideline has been developed for use in the review and evaluation of the following areas:

E Administrative controls have been established over the calibration of installed instrumentation sufficient to assure that calibration is performed and documented to attest to an instrument's ability to fulfill its design function.

E Procedures exist to perform calibration and are appropriate to the instrument being calibrated.

E Procedures are established to evaluate potentially adverse conditions such as out-of-calibration, damage and instrument drift.

NOTE: This guideline is not applicable to installed security equipment or installed process equipment.

3.0 References:

3.1 IEEE 498 - Calibration and Control of Measuring and Test Equipment Used in Nuclear Facilities

3.2 MA-303 - INPO Good Practice on Control and Calibration of Measuring and Test Equipment

3.3 ASME B&PV Code Section XI Subsection IWP

3.4 MA-302 - INPO Good Practice on Trend Analysis

- 3.5 TS-405 - INPO Good Practice on Instrument Setpoint Change Control Program
- 3.6 Plant Technical Specifications
- 3.7 Plant QA Plan Manual
- 3.8 FSAR
- 3.9 INPO Good Practice MA-302

NOTE: Typically, references 3.2 and 3.3 apply to non-installed measuring and test equipment. However, the basic elements of control described in these documents may be applied to installed instrumentation in order to meet requirements of reference 3.1.

4.0 Guidelines:

4.1 In preparation for and during the conduct of this surveillance:

- E Obtain and review implementing procedures, instructions and drawings governing this activity.
- E Prepare a guide or checklist using the selected items from this guideline.
- E Review past surveys, audits, surveillances and other evaluations/assessments.
- E Ensure that checklists include, where applicable, actual observations of performance dispositioned.

5.0 Other Guidelines for Consideration:

- 5.1 A.1, "General Quality Surveillance Guidance"