

NRC INSPECTION MANUAL

INSPECTION PROCEDURE 73055

PRESERVICE INSPECTION DATA REVIEW AND EVALUATION

PROGRAM APPLICABILITY:

73055-01 INSPECTION OBJECTIVES

01.01 Ascertain whether the NDE data covers the scope of examination required during the current inspection period of the inspection interval as described in the applicable ASME Code, the Safety Analysis Report and the licensee's PSI Program.

01.02 Ascertain whether the preservice inspection data files are complete and the data are within the previously established acceptance criteria.

01.03 Ascertain whether the licensee's disposition of adverse findings and subsequent re-examination is consistent with Regulatory requirements.

73055-02 INSPECTION REQUIREMENTS

02.01 Ascertain whether the NDE records system contains provisions for files, records and documents on the items as listed in the applicable Addenda of the ASME Code Section XI under "Examination Categories - Areas Subject to Examinations and Extent and Frequency of Examination."

02.02 Obtain NDE records of preservice inspection for three areas subject to examination, including two areas for Class 1 components. Ascertain whether the selected records contain or provide reference to the following documents:

- a. Examination results and data sheets
- b. Examination equipment data
- c. Calibration data sheets
- d. Examination evaluation data
- e. Records on extent of examination
- f. Records on deviation from program and procedures including justification for deviation (if applicable)
- g. Records on disposition of findings

- h. Re-examination data after repairwork (if applicable)
- i. Identification of NDE material such as penetrant, penetrant cleaner, couplant, films, tapes, etc.

02.03 If reactor pressure vessel NDE records are at the construction site (some are in the vendors shop), obtain three sets of NDE records of preservice inspection of pressure retaining weld of the reactor pressure vessel (length of each sampling NDE record not less than five feet) and ascertain whether the following requirements are met:

- a. The method, extent and technique of examination comply with licensee's PSI program and applicable NDE procedure.
- b. The examination data are within the acceptance criteria as outlined in applicable NDE procedure and applicable code requirements.
- c. The recording, evaluation and disposition of findings are in compliance with the applicable NDE procedure and applicable code requirements.
- d. The method used for NDE was sufficient to determine the full extent of indication or acceptance.

02.04 Obtain NDE records of preservice inspection of two pressure retaining pipe welds in each of three piping systems (above 2 in. diam.) of which at least two systems should be within the reactor coolant pressure boundary. Ascertain whether the following requirements are met:

- a. The examination unit calibration data sheets show no major deviations between initial and final calibrations.
- b. Collected examination data and any recordable indications are properly recorded to permit accurate evaluation and documentation.
- c. Evaluation of examination data performed by a Level II or Level III examiner.
- d. Evaluation of examination data complies with the procedure.
- e. Evaluation of indications (if applicable) comply with the criteria of the NDE procedure and ASME Section XI.
- f. Incomplete examinations and results were repeated to permit full evaluation (if applicable).

73055-03 INSPECTION GUIDELINES

03.01 Future Inservice Inspections may require the review of PSI Data Records for comparison; therefore, accuracy, clarity, safe storage, proper recording and filing for convenient retrieval are essential.

NDE equipment, calibration material, films cassettes and tapes may be stored separately from the NDE files, however, the files should cross-reference the equipment or material by identification number, index file and store-room location.

Items listed under Class 1 and Class 2 Pressure Retaining Components are items subject to Preservice Inspection (PSI). The IE inspector shall utilize the list of "Examination Categories" in the applicable ASME Code, Section XI as a "checklist" and verify that NDE

records exist for each of the items listed, thus ascertaining whether the entire scope of PSI has been covered.

03.02 The three selected sets of records and documents shall be checked for completeness. Some references may be made to NDE equipment, calibration material, film cassettes, tapes and other pertinent NDE record materials impractical to be stored in the file.

The inspector should use the listing of required documents as a "checklist" during the review of the three selected sets of NDE records for completeness.

03.03 & 03.04 The IE inspector shall evaluate the data and references of these selected sets of NDE records and verify that licensees NDE program and procedures have been followed for the requirements as listed in Section II of this procedure. For the review of evaluations of examinations, the inspector should ascertain whether the NDE procedure criteria has been followed and that the limitations for acceptability do not exceed the limits as set forth in ASME Section XI and as delineated in the SAR and PSI program.

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