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CIVIL INSPECTION ACTIVITIES	PREPARED BY: <u>Michael Whelan</u> 9/13/83 DATE			
	APPROVED BY: <u>[Signature]</u> 9/14/83 DATE			

1.0 REFERENCES

- 1-A Specification 2323-SS-9, "Concrete"
- 1-B Specification 2323-SS-10, "Reinforcing Steel"
- 1-C Specification 2323-SS-11, "Cadmeld Connectors for Reinforcing Steel"
- 1-D Specification 2323-SS-16B, "Structural Steel"
- 1-E Specification 2323-SS-17, "Miscellaneous Steel"
- 1-F CP-QP-2.1, "Training of Inspection and Testing Personnel"
- 1-G CP-QP-13.0, "Control of Measuring and Test Equipment"
- 1-H CP-QP-15.0, "Tagging System"
- 1-I CP-QP-16.0, "Nonconformances"

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2.0 GENERAL

2.1 PURPOSE AND SCOPE

This procedure outlines the quality control program that will be utilized to assure that the project civil activities comply with the specified requirements contained in References 1-A through 1-E.

The scope of the activities governed by this procedure include concrete preplacement, concrete production, concrete placement, concrete postplacement, cadwelding, grouting and structural steel installation. These activities apply to safety related or seismic category I structures or installations but may also be applied in whole or in part to non-safety related structures or installations as requested by the TUSI Resident Manager.

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2.2 RESPONSIBILITIES AND AUTHORITY

The Quality Control Supervisor is responsible for the administration of the stated inspection activities. He has delegated authority to the QC Inspectors to implement this procedure and the requirements of Quality Instructions supplementing this procedure.

3.0 PROCEDURE

3.1 PERSONNEL TRAINING

Personnel performing the stated inspection activities are trained in accordance with applicable codes and standards utilizing the provisions of Reference I-F. The training program provides assurance that proficiency in inspection performance is achieved and maintained.

3.2 INSPECTION DETAILS

The inspection details for the specific civil activities are prescribed by documented Quality Instructions supplementing this procedure. These instructions provide the inspector with the necessary criteria and direction for the performance of the inspection activities.

3.3 MEASURING AND TEST EQUIPMENT

Measuring and test equipment is maintained within a calibration program and is controlled, calibrated, adjusted and maintained at prescribed intervals or prior to use to provide confidence in the validity of the resulting data. Reference I-G defines responsibilities and basic requirements for calibration.

3.4 STATUS INDICATORS

For each civil inspection activity, an inspection status indicator is utilized. The status indicator is in the form of a release document (concrete pour card, traveler, etc.) which provides the inspector with a status of the work process for a particular civil activity. When the inspector has verified that the work processes have been accomplished in accordance with all applicable requirements, he signs the release document for that portion of the work process.

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If nonconforming conditions are identified during an inspection activity, the provisions of Reference 1-H shall be implemented to control further processing.

3.5 NONCONFORMING ITEMS

Nonconformances shall be reported as outlined in each Quality Instruction.

3.6 DOCUMENTATION METHODS

Quality Instructions detail the documentation required to be completed to provide objective evidence of compliance with specified Engineering/Construction criteria. These records shall be submitted to the Quality Control Supervisor or his designee upon completion for review, processing and filing in accordance with CPSES requirements for "QA Records".