

#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

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MEMORANDUM FOR: G.E. Lear, Chief, Structural & Geotechnical

Engineering Branch,

FROM:

Elinor G. Adensam, Chief Licensing Branch No. 4 Division of Licensing

SUBJECT:

CLARIFICATION OF NRR ASSISTANCE IN RESOLVING MIDLAND

SOILS ISSUES

Recent discussions with Region III have occurred to clarify R. F. Warnick's memorandum of March 16, 1983 (Enclosure 1) addressing NRR assistance in resolving Midland soils issues. The clarification focused on the statement that "Region III has assumed all responsibility for reviewing the remedial soils work at the Midland site" Region III agrees that this statement does not apply to changes representing a significant departure from the Midland SER and its supplements or associated hearing testimony. Such changes are to be 'andled through the normal licensing process (i.e., by formal request from JPCo to NRR and SER supplements).

Accordingly, in the execution of the Task Interface Agreement 83-40 (TAC #51341; accomplishment No. 141433) included in Enclosure 1, NRR should be alert to recognize early where changes requested by CPCo represent a significant departure from our earlier evaluation, and to assure that such requests and reviews are accomplished in accordance with NRC regulations for licensing reviews and documentation requirements. Please assure that any such changes are identified promptly to the Licensing Project Manager, Darl Hood, in order that proper coordination and documentation be achieved.

> Elinor G. Adensam, Chief Licensing Branch No. 4 Division of Licensing

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Enclosure: As stated

ASK NO. 83 - 40 ATE: APRIL : 8 1983 TAC #: 51341

### TASK INTERFACE AGREEMENT

PROBLEM: Midland 1/2 - Soils Issue

LEAD OFFICE: /\_/ I&E /\_/ NRR /X/ REGION III /\_/ JOINT

NOTIFICATION:

REFERENCES: Memo to TNovak fm RWarnick dated 03/16/83, subject: NRR Assistance in Resolving Midland Soils Issue

#### ACTION PLAN:

OFFICE COORDINATORS:

NRR:

1. Assist Region III in reviewing the remedial soils work at Midland. Assistance is expected to include evaluation of possible deviations from licensee commitments in the SER, advice to the Region III reviewer, and occasional site visits. (SGTER)

The exact schedule cannot be defined but the PM forcasts that NRR assistance after 12/83 is unlikely.

Region III will contact NRR (PM) on case basis.

NRR: Designate Lead Project Manager to assign TACS and coordinate correspondence, meetings, and reports (ORB# /LB#4 - D. Hood).

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cc:	V. Stello, ROGR Recional Admin. J. Taylor, ISE E. Jordan, ISE R. Baer, ISE W. Wills, INE	J. Sniezek, I&E R. DeYoung, I&E J. Heltemes, AEOD H. Denton, NRR E. Care, NRR R. Vatisch, NRR H. The Ison, NR	T. Speis, . NRR D. Eisanhut, MRR R. Vollder, MRR G. Lainas, MRR T. Movak, MRR F. Minagifa, MRR F. Minagifa, MRR	G. Holahan, NRR Lead Project Manager R. Purple, NRR R. Magaran, NRR	

UNITED STATES NUCLEAR REGULATORY CONVISSION REGIO!. III 799 RODSEVELT ROAD GLEN ELLYN, ILLINOIS 60137

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MEMORANDUM FOR: T. Novak, Assistant Director for Licensing, Division

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FROM:

R. F. Warnick, Director, Office of Special Cases

SUBJECT:

NRR ASSISTANCE IN RESOLVING MIDLAND SOILS ISSUE

Region III has assumed all responsibility for reviewing the remedial soils work at the Midland site. However, we expect the licensee to periodically request relief from commitments made in the SSER. NRR's assistance will be requested when this occurs.

The expertise of NRR will also be required from time to time for consultation with Mr. Ross Landsman during his review of the remedial soils activities. A schedule cannot be defined at this time. NRR's assistance will be requested on a case by case basis as the need arises.

We also recommend that periodic site visits be made in order for your personnel to maintain their awareness of the underpinning effort. These visits could be limited to observations of critical work activities such as the pier 11 load tests and the drift work to the control tower. The schedule for these activities can be obtained from Ross Landsman.

Should you have any questions please contact Wayne Shafer (FTS 384-2656).

RF Warnick

R. F. Warnick, Director Office of Special Cases

cc: A. B. Davis

J. H. Sniezek, IE

J. C. Stone, IE

D. Hood, NRR M/5-116

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General Offices: 212 West Michigan Avenue, Jackson, MI 49201 • (517) 788-0550

September 7, 1983

Mr J J Harrison Midland Nuclear Project Section US Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, IL 60137

MIDLAND ENERGY CENTER
REMEDIAL SOILS WORK AUTHORIZATION
FILE: 0485.16 UFI: 42\*05\*22\*04, 12\*32 SERIAL: CSC-6881

Attached for your review is Revision 7 to MPQP-1. The significant changes in MPQP-1 are as follows:

- The Plan has been revised to provide coverage for how Mueser, Rutledge, Johnston & DeSimone (MRJD) will provide design services to support remedial soils work as a design contractor to Bechtel.
- 2. Where audit was covered in the various text locations, the wording has been clarified to reflect that the MPQAD Site Audit Organization has the prime responsibility for audits.
- 3. As appropriate, the new PEP's have replaced the old EDP's, and the Administrative Services Department Procedures have been added to the List of Applicable Procedures.

In accordance with the NRC/CPCo Work Authorization Procedure, we request your approval of this activity.

102351125 - Approval of MPQP-1, Rev 7

Upon receipt of your authorization, an effectivity date will be assigned and the plan will be released.

DBM/WRB/ljr

Attachment

CC: DSHood, US NRC
RJCook, Midland Resident Inspector

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Effectivity Dat	.e
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Approved	Manager MPQAD
Approved	Bechtel Assistant Project Manager
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Approved	Midland Project Office

#### GENERAL

All activities for the remedial soils work are covered by the existing Consumers Power Company and Bechtel Power Corporation Topical Reports CPC-1-A and BQ-TOP-1, Revision 1A, respectively. This Quality Plan provides a more detailed written description of the accomplishment of activities specific to certain soils remedial work. This Quality Plan was developed to describe how quality programmatic coverage is extended to encompass the underpinning subcontractors as required by the Quality Plan for Remedial Soils Work (MPQP-2).

The senior management, consisting of the Vice President of Projects,
Engineering and Construction, Consumers Power Company, and the Midland
Project Manager, Bechtel Power Corporation (CP Co's contractor for the
Midland Nuclear Plant), reviews and approves major decisions and design
concepts regarding underpinning work. For CP Co, a Midland Project
Office Executive Manager and an Assistant Project Manager, and for
Bechtel, a Bechtel Assistant Project Manager, will manage the
underpinning work. The Bechtel Field Soils Manager manages overall soils
activities including the underpinning work.

The Executive Manager of MPQAD and the Site QA Superintendent Soils will manage the MPQAD support of underpinning work with the overview of the Director of Environmental and Quality Assurance.

#### 2. SCOPE

This Quality Plan is applicable to the auxiliary building and service water structure underpinning tasks. The "Q" list for this work is all inclusive and, as such, covers activities, items and structures beyond the requirements provided by the FSAR. This extension to provide Quality Assurance Program coverage over and above the coverage for safety related items provides an additional assurance that the non-safety related activities will not have an adverse affect on safety related structures.

The following major categories of the underpinning work are specifically covered by this Quality Plan.

- Underpinning of the Service Water Pump Structure as delineated by Specification 7220-C-194(Q).
- 2. Underpinning of Auxiliary Building (removal, replacement of fill, and underpinning beneath the feedwater isolation valve pit areas, auxiliary building electrical penetration areas, control tower, and beneath the turbine building) as delineated by Specification 7220-C-195(Q). (Reference MPQP-1)

Any activity or structure which will be excluded from Quality Assurance Program coverage shall be specifically documented on an exception basis. Authorization by NRC Region III is required prior to conducting any work activity in the excluded areas.

Specifications, procurement documents, drawings and procedures are specific as to the design attributes and activities which require quality verification. The need for verification shall be dictated by the following principal:

The Quality Assurance Program shall provide control over activities affecting the quality of the identified structures, systems and components to an extent consistent with (a) their importance to safety; (b) their possible detrimental interaction or effect on safety related structures and items; or (c) assuring obtainment of the overall Project objectives.

#### 3. UNDERPINNING WORK ORGANIZATIONS

Organizations involved with the underpinning are defined in the Functional Matrix, Attachment 1 and as follows:

### CP Co Project Management

Sets policy, coordinates licensing review, and submittals to the NRC.

### CP Co Safety and Licensing

Performs licensing reviews and coordinates FSAR revisions.

## Project Engineering - Mechanical/Civil

Provides client design input and performs reviews of and comments on Bechtel Design Documents.

#### CP Co Site Management.

Provides overview and direction as necessary for underpinning activities for compliance with NRC commitments. Monitors underpinning activities with respect to commercial type items, construction activities (such as equipment care, labor and production), and implements site work authorization procedure. Provides overview and control of work releases for remedial soils activities for compliance with NRC commitments.

#### Bechtel Project Management

Coordinates with client and sets project policy for Bechtel organizations.

#### Bechtel Project Engineering

Establishes design criteria and reviews input from non-Bechtel sources.

Originates and issues design documents for construction. Provides design verification and approval for subcontractor-originated non-permanent underpinning component design. Reviews design by design contractors and releases same for construction.

### Bechtel Project Geotechnical Engineer

Functions as Project Engineering's Geotechnical representative on project. Performs geotechnical reviews related to design criteria and procedures. Interfaces with Geotech Services and Resident Geotechnical Engineer.

#### Bechtel Site Management

Performs the overall on-site management of all construction activities including coordination between Bechtel, CP Co and Subcontractors.

Bechtel Site Management includes Construction Site Organization, Field Soils Organization, Field Document Control Center and Field Procurement Department. The Field Soils Organization (FSO) is responsible for all ASLB Board Order Work including coordinating the activities of the underpinning subcontractors.

#### Geotech Services

Provides design and field geotechnical services as requested by Project Engineering.

### Resident Assistant Project Engineer

Represents Project Engineering and interfaces with the Field Soils Organization.

### Resident Geotechnical Engineer

Performs foundation inspection and on-site geotechnical monitoring of underpinning activities. Interfaces with the Project Geotechnical Engineer.

#### Resident Structural Engineer

Provides structural expertise for the underpinning activities. Receives and evaluates data from the underpinning instrumentation systems.

#### Midland Project Quality Assurance Department (MPQAD)

Provides quality assurance including quality assurance engineering (QAE) and quality control (QC) for all underpinning work including work done by Bechtel and Bechtel Subcontractors. Quality Assurance Engineering develops quality plans, reviews construction procedures, drawings and specifications for inclusion and establishment of inspection criteria, performs overinspections and may conduct pre-planned audits. Quality Control performs first-line inspection and verification, of items under the Quality Assurance Program.

#### Subcontractor

Perform construction activities as contracted for, within the framework of the Midland Project Quality Program. Provide design of non-permanent underpinning components as directed by Bechtel Project Engineering.

#### Consultant

Provides advice to Bechtel Project Engineering or Bechtel Field Soils Organization on construction methods, design, instrumentation or geotechnical items.

#### Design Contractor

Provides design (including calculations, design drawings, and detail drawings) of permanent and non-permanent underpinning components as specified in Technical Service Agreements issued by Bechtel Project Engineering.

#### 4. DESIGN CONTROL

Design Control for the underpinning of the Auxiliary Building (Electrical Penetrations and Control Tower Structure), Feedwater Isolation Valve Pit fill material replacement will be provided by Bechtel Project Engineering and Design Contractors with approved Quality Assurance Programs. Design control for the underpinning of the Service Water Pump Structure will be provided by Bechtel Project Engineering. Engineering Department Procedures (EDPs), and Project Engineering Procedures (PEPs) provide the controls for Bechtel Engineering activities which are responsive to the Quality Program requirements of MPQP-2. Design contractors are required to have design control procedures as part of their approved Quality Assurance Program.

Design criteria will be developed from input from consultants, the Midland Plant Safety Analysis Report, 50.54(f) responses submitted to the NRC staff, meetings with and submittals to the NRC staff, and testimony during the ASLB Soils hearing.

Design documents, including specifications, drawings and material requisitions, shall be specific as to what is required to ascertain that processes, activities and final products meet their design requirements.

Design documents, including specifications and drawings (as well as changes and revisions to these documents), will be reviewed and checked for compliance to design requirements by Bechtel Project Engineering.

Design documents will be reviewed by MPQAD QAE. The Quality Assurance Engineering review applies to all design documents. (MPQAD Procedure M-11)

Quality Assurance Engineering will act as the focal point for the assurance of the resolution of quality related comments.

Technical specifications and revisions thereof will be generated, reviewed, approved, and controlled by Bechtel Project Engineering in accordance with EDP 4.49. Initial specifications will also be reviewed by CP Co Design Production and comments submitted to Bechtel Project Engineering. Specification Change Notices (SCNs), used as interim change documents between revisions of the specification, will receive the same level of review and approval by Bechtel Project Engineering as the basic specifications. Specification Change Notices shall be administered and controlled in accordance with PEP 4.49.1.

Project Engineering prepares, reviews, approves, issues and controls design drawings in accordance with PEP 4.46.1. Changes to engineering

drawings receive the same level of review and approval as the basic drawing and are administered in accordance with EDP 4.47 and PEP 4.47.2.

(Underpinning) Subcontractors prepare design and detail drawings for nonpermanent underpinning systems/components. These documents are checked, reviewed and approved by Bechtel Project Engineering in accordance with PEP 4.25.2 and EDP 5.16.

Design contractors perpare, review, approve, issue and control design drawings in accordance with their Quality Assurance Program approved by MPQAD and Bechtel Project Engineering.

Bechtel design calculations are originated, checked, approved, controlled and documented by Project Engineering in accordance with EDP 4.37. All design calculations submitted by the consultant are checked, reviewed and approved by Bechtel Project Engineering in accordance with PEP 4.25.2.

Design calculations by the design contractor are originated, check, and controlled in accordance with their Quality Assurance Program approved by MPQAD and Bechtel Project Engineering.

Bechtel Project Engineering will review all design calculations, design drawings, and detail drawings by design contractors in accordance with PEP 4.25.2 and EDP 5.16.

All design documents by subcontractors, design contractors and consultants are documented and retained in accordance with Administrative Services Department Procedure (ADP) ADP-2.2 and ADP-2.13.

Bechtel Field Soils Organization shall request from or notify Project Engineering of changes to design documents by Field Change Requests (FCRs) and Field Change Notices (FCNs), respectively. The FCRs will be reviewed, evaluated, dispositioned, controlled and administered in accordance with PEP 4.62.1. FCNs will allow the Bechtel Field Soils Organization to initiate field changes in design documents originated by Bechtel Project Engineering within the allowable guidelines of Field Procedure FPD-2.000 and Specification G-34 (Q) as provided by Project Engineering. FCNs will be reviewed, evaluated, dispositioned, controlled and administered according to PEP 4.62.1. Changes to design contractor orignated documents will be accomplished by the Design Contractors change program or by a field engineering request using the FCR.

The design interface for the underpinning activities between Project
Engineering, project groups, technical support groups, subcontractors,
design contractors and consulants shall be administered as illustrated
in Attachment 2, Design Document Interface Flowchart, and Attachment 3,
Design Interface Flowchart for Design Contractors. Geotech Services will
receive design for review in accordance with PEP 4.25.2. The
Subcontractor receives design documents from Bechtel Field Soils
Organization in accordance with FID 1.100. The Resident Structural
Engineers duties on site are defined in PEP 2.14.9.

Inspections are performed by Quality Control to verify that construction is being performed to the latest revisions of the design documents.

Audits and/or overinspections are conducted by MPQAD Site audit

organization and Quality Assurance Engineering respectively. Field geotechnical activities, including subgrade acceptance, are accomplished in accordance with PEP 2.14.8.

### 5. PROCUREMENT AND RECEIVING

Procurement of items and services for the remedial underpinning work is performed by Bechtel employing the technical and quality requirements established in the specifications and drawings. Q-material requisitions are originated by Bechtel Field Soils Organization in accordance with FPG-8.000. The Bechtel Field Soils Organization is responsible for assuring that applicable Quality Program requirements, design bases, specifications, procedures and drawings are included and referenced in the material requisitions. Bechtel Field Procurement Department initiates formal purchase orders and will be responsible for ensuring that the procurement package conforms to the material requisition. Quality Assurance Engineering reviews and approves procurement documents in accordance with MPQAD Procedure M-5 to assure that necessary Quality Assurance Program requirements are included.

Upon receipt of Q-material, inspections are performed by Quality Control in accordance with PSP G-5.1 to verify items comply with the procurement package requirements and quality verification packages are complete.

Quality verification packages are reviewed for availability, traceability and legibility by Quality Control and audited by Quality Assurance (MPQAD Procedure F-1M). In addition, a technical review will be performed by

Quality Control in quality verification packages for non-shop inspected items.

#### 6. PREPARATION AND IMPLEMENTATION OF PROCEDURES/INSTRUCTIONS

Written instructions to the Subcontractor are in the form of engineering specifications, drawings, and approved changes thereto.

The G-321D form (controlled by EDP 4.58) attached to the specifications identify the procedures and other vendor submittals, which are the minimum required to be submitted by the Subcontractor prior to the start of fabrication and construction. These procedures are logged, controlled, and distributed by the Field Document Control Center and reviewed by Project Engineering and MPQAD. Project Engineering defines the specific quality attributes of each procedure. The procedures will be specifically reviewed by Quality Assurance Engineering for appropriate inclusion of quality requirements. (MPQAD Procedure M-10)

These procedures, when approved by MPQAD, and Bechtel Project Engineering, provides authorization for fabrication/construction to proceed.

#### 7. INSPECTION, EXAMINATION, TEST AND CALIBRATION

Quality verification, inspection and testing of Subcontractor activities is performed by Quality Control, independent of the Subcontractor and Bechtel Field Soils Organization. Inspection planning is performed by MPQAD in accordance with PSP G-6.1 and MPQAD Procedure E-3M, utilizing

inputs from technical specifications, design drawings, Subcontractor procedures and shop drawings. Project Quality Control Instructions (PQCIs) are prepared to cover all Subcontractor quality related activities. Existing PQCIs are adapted for standard construction activities such as concrete batching, placement and testing, and reinforcing steel installation. Additional PQCIs are developed as recessary to verify new underpinning activities such as temporary support installation, load transfer and threaded reinforcing connectors. In addition, inspection and test activities are monitored by Quality Assurance Engineering through the use of overinspection plans based on an independent evaluation of design and procurement documents per MPQAD Procedure E-1M. The Subcontractors are indoctrinated to quality control inspection practices to assure that hold points, included as an integral part of the Subcontractor's procedures, are adhered to. For site construction activities, the detailed implementing procedures shall utilize integrated construction planning, as follows:

- a) Hold points shall be clearly identified in the procedures.
- b) The procedures shall provide for MPQAD signoff to record the completion of the inspection holdpoints prior to proceeding with the further execution of subsequent procedural steps.

Tests are performed to qualify, demonstrate or assure that the quality of procured items or completed construction is as defined in applicable engineering drawings and procurement documents.

Calibration, maintenance and control of measuring and test equipment is provided by approved agencies which will be pre-qualified by Quality Assurance Engineering. These agencies provide for traceability to national standards, the unique identification of each instrument or equipment requiring calibration, the maintenance of calibration frequencies, and identification of calibration status. Calibration records are maintained by the agencies and are transmitted to Bechtel Field Soils Organization for review. At the completion of the subcontract, these records will be turned over to MPQAD. Performance and effectiveness of the agencies is verified by Quality Assurance audits and/or overinspections in accordance with MPQAD Procedures F-1M and E-1M, respectively.

#### 8. HANDLING AND STORAGE

All Q-list material is stored and handled in accordance with general Field Procedures FPG 4.000 and 5.000 and supplemented by the Subcontractor's procedure. Storage and handling of material and equipment is subject to Quality Control inspection and verification according to PSP G-5.1 and Quality Assurance overinspections and/or audits per MPQAD Procedures E-1M and F-1M, respectively.

### 9. DOCUMENT CONTROL AND QUALITY RECORDS

Subcontractor documents which are to be submitted for review and comment by Bechtel Project Engineering and MPQAD are controlled by the Field Document Control Center (FDCC) in accordance with Bechte! field Procedure

FPD 1.000. Prior to the start of work, the Subcontractor submits construction procedures, drawings, purchase orders, as required by the specifications, to Bechtel Field Soils Organization. Bechtel Field Soils Organization and the FDCC distributes the procedures for review and approval as defined in the Quality Plans included with specifications 7220-C-194 and C-195. Bechtel Project Engineering and/or Resident Engineering, as designated, is responsible for resolving review comments.

All quality records are controlled by EDPs 5.16 and 5.24, Quality Control Procedure PSP G-7.1 and MPQAD Procedures F-11M and F-12M. These procedures prescribe the requirement for preparation, control, distribution and transmittal of all Q-related procedures, specifications, drawings and inspection records.

### 10. NONCONFORMING ITEMS AND CORRECTIVE ACTION

Nonconformances discovered during construction inspection activities are documented and controlled by MPQAD in accordance with PSP G-3.2 and/or MPQAD Procedure F-2M and M4. These procedures provide for the identification and documentation of the nonconforming item, identify the authority for and disposition of the nonconforming condition, and provide for documenting the reinspection and closeout of the nonconformance. Dispositions to non-conformance reports will be reviewed by Quality Assurance Engineering to assure that the disposition is acceptable, that engineering rationale is adequately documented and that quality planning is available for the verification of the disposition. MPQAD will inspect

and provide verification of disposition implementation prior to closing of the non-conformance report.

Within the Midland Project Quality Program, the identification of reportable items is accomplished by MPQAD through the review of nonconformance reports, supplier surveillances and quality assurance audits. Corrective action for quality problems will be controlled by MPQAD Procedure F-2M, M-4 or F-3M.

In the design phase, investigation of cause and action taken to preclude resurrence of design deficiencies will be accomplished through EDP 4.65. Design deficiencies include those items which are not identified in the course of design development and which ultimately require changes.

#### 11. AUDITS

Audits are performed by Quality Assurance to verify conformance to quality requirements. MPQAD Procedure F-1M includes provisions for the identification of deficiencies, the determination of corrective action, and the necessary follow up to verify that timely and effective action is taken. The primary responsibility for site audits rests with the MPQAD Site audit organization. Soils Quality Assurance supports this audit function. Audits of Bechtel Ann Arbor and Design Contractors are accomplished by MPQAD Quality Engineering. Audits of Suppliers are accomplished by Bechtel Supplier Quality with participation by Quality Assurance Engineering.

#### 12. TRAINING AND CERTIFICATION

All inspectors and quality auditors are trained and certified in accordance with MPQAD Procedures B-2M and/or B-3M. Subcontractor field supervisory, engineering personnel and crafts receive training (QA Indoctrination) to the Midland Project Quality Program. This training includes an introduction to the quality system, inspection activities, nonconformance control, NRC activities, field and engineering design changes and site organizations and interfaces. The training is initially completed prior to any Q-listed work proceeding. Additional training sessions will be scheduled by MPQAD to indoctrinate personnel which are assigned after the initial indoctrination. The Subcontractor is required to implement training for the procedures covering the Subcontractors Q-listed activities.

MPQP-1 REVISION 7 1983 Page 19

## QUALITY PLAN FOR UNDERPINNING ACTIVITIES

LIST OF

APPLICABLE

PROCEDURES

### MIDLAND PROJECT QUALITY ASSURANCE DEPARTMENT PROCEDURES

B-2M	Personnel Training
B-3M	Qualification and Certification of Inspection and
	Test Personnel
E-1M	Site Inspection Planning and Site Inspection
E-2M	Review of Site Inspection Planning Prepared by others
	than MPQA
F-1M	Audit
F-2M	Nonconformance Reporting, Corrective Action and
	Statusing
F-3:4	Resolution of Significant Quality Problems
F-11M	Documentation Control
F-12M	Quality Records
M-4	Quality Action Request
M-5	QA Review of Bechtel Field-Originated Procurement
	Documents
M-10	MPQAD Review of Subcontractor Procedures/Instructions
	for work covered by the April 30, 1982 ASLB order.

M-11

MPQAD Review and Approval of Bechtel Design Documents, Field Sketches, and Shop Drawings for work covered by the April 30, 1982 ASLB Order.

#### ENGINEERING DEPARTMENT PROCEDURES

EDP - 4.37	Design Calculations
EDP - 4.49	Project Specifications
EDP - 4.58	Specifying and Reviewing Supplier Engineering and Quality Verification Documentation
EDP - 4.65	Design Deficiency
EDP - 5.16	Supplier Document Control
EDP - 5.24	Document Distribution Control Center
ADMINISTRATIVE SERVICES	DEPARTMENT PROCEDURES

ADP - 2.2	Project Records C	ontrol, Retentio	on, and Turnover
ADP - 2.13	Project Supplier	Design Document	Control

### List of Applicable Procedures

### FIELD PROCEDURES

FPG-8.000	FMRs
FPD-2.000	Field Change Request/Field Change Notice
FPG-4.000	Storage Maintenance/Inspection of Equipment and Materials
FPG-5.000	Maintenance/Inspection of Material and Equipment Released for Construction
FID-1.100	Vendor Document Review
FPD-1.000	Field Documentation of Correspondence Control

### PROJECT SPECIAL PROVISIONS

PSP G-5.1 Material Receiving and Storage Control  PSP G-6.1 Inspection Planning  PSP G-7.1 Document, Records and Correspondence Control  PSP G-8.1 Qualification, Evaluation, Examination Training and Certification of Construction Quality Control  Personnel	PSP G-3.2	Control of Nonconforming Items
PSP G-7.1 Document, Records and Correspondence Control  PSP G-8.1 Qualification, Evaluation, Examination Training and  Certification of Construction Quality Control	PSP G-5.1	Material Receiving and Storage Control
PSP G-8.1 Qualification, Evaluation, Examination Training and Certification of Construction Quality Control	PSP G-6.1	Inspection Planning
Certification of Construction Quality Control	PSP G-7.1	Document, Records and Correspondence Control
	PSP G-8.1	Qualification, Evaluation, Examination Training and
Personnel		Certification of Construction Quality Control
		Personnel

### PROJECT ENGINEERING PROCEDURES

PEP - 4.1.1	Preparation of Design Requirements Verification Checklist.
PEP - 4.25.2	Interface Control Design Documents for Remedial Soil: Underpinning Operation.
PEP - 4.25.3	Interface Control of Design Documents for Remedial Soils and Related Other Work with Consumers Power Company for Midland Job 7220.
PEP - 4.46.1	Project Drawings
PEP - 4.47.2	Drawing Change Notices
PEP - 4.49.1	Specification Change Notice
PEP - 4.62.1	FCR/FCN
PEP-2.14.8	Resident Geotechnical Engineer for Remedial Soils Activities
PEP-2.14.9	Resident Structural Engineer for Remedial Soils Activities

MPOP-1 REVISION 7 ATTACHMENT 1

PROJECT FUNCTIONAL MATRIX

FOR UNDERPINNING ACTIVITIES

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WISS JANEY (TSA)

MPGAD

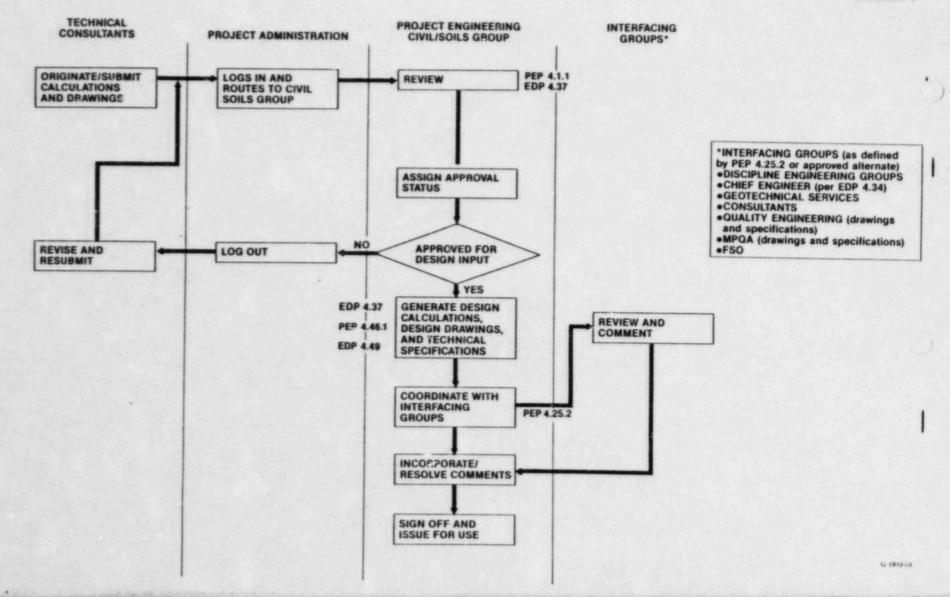
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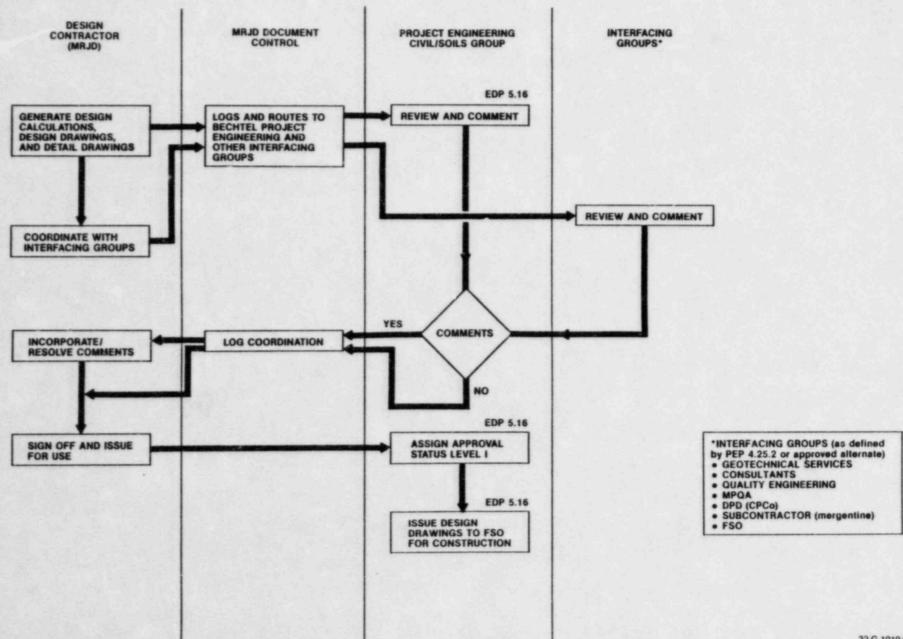
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#### **DESIGN DOCUMENT INTERFACE FLOWCHART**

MPQP-1 REVISION 7 ATTACHMENT 2



#### DESIGN DOCUMENT INTERFACE FLOWCHART FOR DESIGN CONTRACTORS





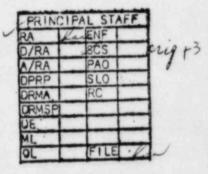
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September 7, 1983

Mr J J Harrison Midland Project Section U S Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, IL 60137

MIDLAND ENERGY CENTER GWO 7020 REMEDIAL SOILS WORK AUTHORIZATION File: 0485.16 UFI: 42\*05\*22\*04 Serial: CSC-6878 12\*32

J A Mooney Executive Manager Midland Project Office



We have completed our review of the documents for the activities listed below. Based on our review, we concluded that we are ready to start the work:

402350525 - Temporary backfill new pipe (Train A)

203150165 - Fill SWPS chambers with water to el. 622 (±5')

402550446 - Excavate existing pipe (Train B)

402550562 - Temporary backfill new pipe (Train B)

155052320 - Drift from KC3 to 13 feet east of KC4

165052320 - Drift from KC10 to 9 feet west of KC9

155052032 - Finger drift to KC4

155053315 - Excavate Pier KC4

155054310 - Install and load Pier KC4

165052032 - Finger drift to KC9

165053315 - Excavate Pier KC9

1650543i0 - Install and load Pier KC9

207050601 - SWPS-Install four (4) additional piezometers

Also, a number of activity authorizations have passed the 90 day expiration limit. In accordance with the Work Authorization Procedure, we request re-authorization of the following activities:

#### TRAIN B OF SERVICE WATER PIPE REPLACEMENT

402550550 - Remove existing pipe

402550560 - Install new pipe and expansion coupling

402550561 - Hydro test new pipe

402550508 - Perform profiling and ovality check on new piping

JAM/AEB/klm 78

SEP 1 2 1983



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September 7, 1983

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MIDLAND ENERGY CENTER GWO 7020

REMEDIAL SOILS DISCUSSIONS BETWEEN CPCo AND NRC

File: 0485.16 UFI: 42\*05\*22\*04 Serial: CSC-6871

70\*01

J A Mooney Executive Manager Midland Project Office

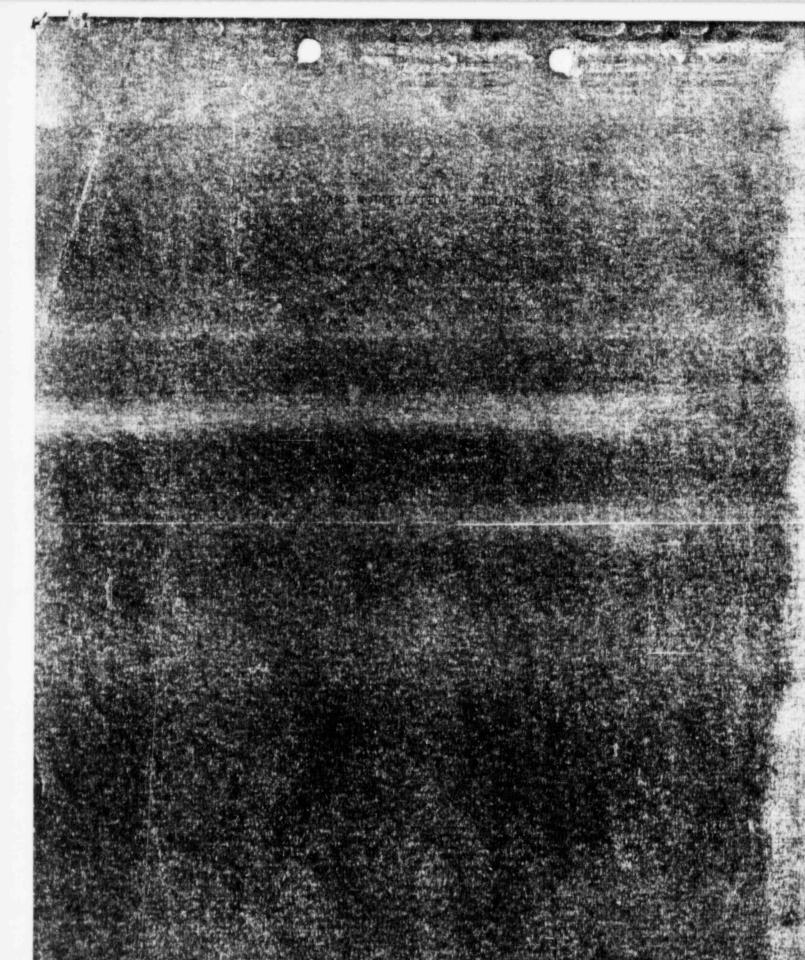
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This letter is to confirm discussions with Region III's Dr. Landsman and Mr. Gardner and with Mr. Wheeler and Mr. Wieland of CPCo on September 1, 1983. The following agreements were reached:

- Dr. Landsman indicated the NRC concurrs with the Engineering logic change which allows the drifts from Kc-2 to Kc-3 and Kc-10 to Kc-11 to be constructed before Piers Kc-3 or Kc-10 are jacked.
- Dr. Landsman concurred with eliminating the activity entitled "Construct Concrete Invert and Layback Soil Kc-2 to Kc-3" and "Construct Concrete Invert and Layback Soil Kc-11 to Kc-10" from the work activity list.
- 3. It was pointed out to Dr. Landsman that a Consumers Power letter, serial CSC-6863, dated 8/25/83, has the incorrect activity number to "Install Pier W13", due to a typing error. The number for this activity should be 165054035 instead of 165053035. This incorrect number was also in an NRC approval letter, dated 8/29/83. For the purposes of documentation, it was agreed that the NRC approval letter dated 8/29/83 authorized the activity "Install Pier W13" and an additional authorization letter from NRC is not required.
- 4. On September 1, 1983, a discussion was held between Dr. Landsman and our Mr. Puhalla in which Dr. Landsman concurred with relocating LS-10 from an interior piezometer to an exterior piezometer, and also concurred with FCR C-6556 to Drawing 3-1320 which deletes wells 555, 561, 576 from the dewatering schedule and adds them to the piezometer schedule.

If you have any questions please contact this office.

JAM/RMW/kam 002



UNITED STATES

NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

April 4, 1983

Docket Nos. 50-289, 50-275/323, 50-361

50-362, 50-483, 50-528/529/530,
50-416, 50-389, 50-370, 50-437

MEMORANDUM FOR: Chairman Palladino

Commissioner Gilinsky Commissioner Ahearne Commissioner Roberts Commissioner Asselstine

FROM:

Darrell G. Eisenhut, Director

Division of Licensing

Office of Nuclear Reactor Regulation

SUBJECT:

STAFF POSITION REGARDING UNRESOLVED SAFETY ISSUE A-17

(Board Notification 83-44 )

The enclosed information is being provided in accordance with present NRC procedures for board notifications. This issue is applicable to all nuclear power plants.

On February 13, 1983, the staff issued Board Notification No. 83-17 concerning allegations regarding Unresolved Safety Issue A-17, "Systems Interaction in Nuclear Power Plants." The staff has considered the concerns raised in that affidavit and has determined that there is no basis for any change in the staff's position regarding USI A-17. The enclosed testimony reaffirms the staff position on USI A-17. We now consider this issue to be resolved.

Darrell G. Eisenhut, Director

Division of Licensing

Office of Nuclear Reactor Regulation

Enclosure: As stated

cc: SECY

OGC

OPE

EDO

Contact: S. Black, NRR xt. 29788

APR 1 5 1983

27/1/2

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