

CPC

Don - please print up & make  
distribution as  
necessary. per A. Boos.  
3/12/82.

March 12, 1982 2:08 p.m.

Conference telephone call between Bechtel/Consumers and NRC.

Call initiated by Don Horn/Al Boos to Dr. Ross Landsman, NRC, Region 3.

In attendance:

BECHTEL/CPCo

NRC-Region III -Chicago

Al Boos  
J. Fisher  
R. Cook (NRC - Site)  
D. Horn  
J. Schaub  
Jim Moore  
Ben Marguglio  
J. Simpson  
Bob Sevo  
Dave Ronk  
Gary Rogers  
Ray Oberleitner (Mergentime)  
Ken Vanderjack

Ross Landsman  
Mr. Boyd

Boos: Hello, Ross, this is Al Boos, with Don Horn.

Who is there with you?

Ross: Landsman and Boyd.

Boos: Who else?

~~Ross~~  
Boyd: That is it.

Were you able to get through to the NRR or not?

Couldn't raise anybody - will handle without <sup>them</sup>.

Boos: (Brief introductory remark) With respect to remedial soils work, it was the staff's position that all items were Q unless applicant could demonstrate that certain activities should be non-Q data. When I came back to Michigan, we have a weekly coordination meeting and one of the first things we did this morning was to draw up a list of those items which either have been completed or in process or are proposed which we feel can, in fact, be treated as non-Q items. Since we are working under the

business as usual concept of you making audits, we felt it was prudent to review with you this list prior to making inspection so that we would have a very clear dialogue in terms of those items remaining Q, primarily because in some respects we elect to bid it may not be physically possible to replace that item - like removing ~~leg wood~~ <sup>wood lagging</sup> or drift. Since we don't want to be cited, we are going to attempt to identify items we feel are non-Q. We feel it is essentially a complete list. May be a need from time to time to offer other items. We will try to do it before we undertake the work. I will ask Don to take us through this.

Boos: Access shafts below 609 - drifts, the piers and instrumentation. (Ron Cook has a copy of it. If necessary for interpretation, he can help me).

1. Access shafts below 609 - Soldier Piles.

It may help you if you have a clean sheet of paper to put down four column headings. I will try and summarize. With respect to soldier piles, we have procured those piles and have installed them as non-Q as you are aware. With respect to access shafts below 609. In this case, in general, other than just access shafts at 609, we feel that the purchase of tools and equipment like torque wrenches, jacks, gauges and threading machines should be non-Q. Our rationale is that there is either provision for calibration or an end inspection of the fabrication, like the reinforcing steel that is threaded by the threading machine. Again, tools and equipment is intended to be a generic comment.

Question: Is this construction equipment?

Answer: Yes, tools and equipment.

Cook: (This is being transcribed for purposes of preparing a telephone summary. QA required it.)

3. Access shafts below 609. Purchase of steel and wood ~~legging~~ <sup>lagging</sup> and I believe we talked about that the other day in Bethesda.

J. Fisher: To differentiate - steel shape = whalers in wood ~~legging~~ <sup>lagging</sup>.

Ross: When we talked <sup>in</sup> the Washington, we were talking about the no certs.

Al: That is what makes it a Q purchase. We would not be buying this with mill certs because this steel doesn't stay in - it is temporary and non permanent. Standard manufactured item.

Ross: We are just talking about the mill cert?

Al: We are not talking about buying it Q.

Cook: The tons of concrete that you pour around here - did you have mill certs on the wood forms you used before? Why on this particular job? Isn't wood ~~legging~~ <sup>lagging</sup> steel shapes?

Al: That is right - We didn't think it needs to be bought Q.

Cook: You didn't talk about this before.

Al: This is a whole new thing.

Cook: NRC - what is the meaning of all this?

Al: We were directed that everything was to be Q unless the applicant could demonstrate that item could be classified as non-Q - we feel that it is imperative for us to check off with you even though you may say ~~they~~ <sup>that</sup> need not be purchased Q. We want to leave a trail that is crystal clear.

Cook: The point is that historically we never have approved anything. Our function is that you are obligated to assure the world that you have done all things appropriate and have invoked QA. We cannot either agree or disagree.

Al: I am not asking for you - I am making a statement of our policy in advance. We will know in an audit what our position is. If he is not in agreement with that position it is in our mutual interests for us to know now from a cost, schedule, quality and personnel safety standpoint.

Cook: Go ahead and revert back to the fact that you poured tons of concrete.

Fisher: We are doing this because of what you told us the other day.

Al: Last item under access shafts below 609 is purchase of rock bolts.

Ross: Which rock bolts?

Al: Rock bolts Turbine Building and buttress access shaft.

ATV  
Again, purchase <sup>Non-Q</sup> installation would be handled as Q. In all of these cases, I have talked about you will note I have talked about only procurement of material with exception of soldier piles. Tools and equipment, etc. Installation would be Q.

Ross: Continue.

Al: New subject - drifts. We are planning to procure the material for the steel sheets which are basically the box-shaped frames that accept <sup>lagging</sup> ~~lagging~~ in the drift as non-Q. Fabrication of those steel sheets would be Q and installation.

Al: The next item - the procurement of the wood ~~legging~~<sup>lagging</sup> and wood wedges for the drifts would also be non-Q. Procurement. Procurement of the back packing material for the drifts would be non-Q. And as a 4th item, the procurement of the rock and earth anchors would be non-Q. Those are the sets of items under the classification of drifts. Under piers - - -

Don has asked me to again reiterate that fabrication and installation of the drifts classification items would be Q. Under classification of piers, Ross, you may be aware that there is Ethifoam to be put behind metal ~~leggings~~<sup>lagging</sup> as back packing. May be gluing Ethifoam to steel. We will propose to procure that glue as a non-Q commodity. Verification that is in place would be a Q-listed activity. That is the only entry I have under piers.

Last item is instrumentation. We are talking about the settlement monitoring instrumentation, pier monitoring instrumentation, etc.

Our position here is that the raceway, the wire and the brackets that would accept the instrumentation would be procured and installed as non-Q. The checkout of the system and the ~~making~~<sup>taking</sup> of the reading would be Q.

Ross: What would you say about the instrumentation in that area?

Al: Instrumentation has been purchased Q.

The instrumentation system is in a data room - it has been procured and installed with environmental controls as non-Q.



Al: The last item which is essentially a repeat of that above under access shafts ~~g~~ gauges, backup gauges, have been procured as non-Q but would be calibrated under a Q program. These are existing dial gauges. Our instrumentation is essentially well under way. Wiring has been pulled - raceway has been installed, etc. Those are the only comments I have.

Ross: Okay. Let us talk here a minute and we will get back with you in just a second.

B. Marguglio: Didn't those dotted lines mean all non Q?

Al: Yes, across the board.

BM: Did that come across in the conversation?

Al: I will reiterate it. It becomes Q at the checkout of the system.

Cook: I am here.

Ross: Feel free to make your own comment.

Boyd: We would like to digest this list and get back with your designated person on Monday. We'd like to sit down and look it over and get back with you, but not to say that we approve or disapprove. If we have any problems or = does not constitute approval - it means we don't have any problems with what is here.

Al: We recognize that you are not going to sign anything as co-approvers.

Boyd: But we can look over and make judgments whether we have any problems and identify anything that does give us problems. Who should we get back with on Monday?

Al: Don Horn.

Boyd: Okay.

Boyd: Ron, do you have any problems with that?

Cook: I think that can be quite livable. We might appear not to have any problems but later on we get into construction and problem is created. I don't want to have relinquished our right to enforcement in that area.

Ross: That is exactly why we don't go into approval process. My judgment is there will be very ~~few~~<sup>few</sup> that will happen that way but we want the door open.

Ross: Okay.

Al: Very good. The rest of us in the room will wait to hear from you and your results on Monday.

BM: I have a question. Will it be both of you gentlemen calling Don Horn Monday?

Boyd: Ron Cook and Ross and myself will get together and talk - one of us will make the call. We will get back with you on Monday with our findings.

Al: To clarify one point, to make sure I didn't mislead the people in Chicago - with respect to the raceway material - the wire, the fabrication of brackets that, ~~accept~~<sup>except</sup> instrumentation, and termination of wire that we are talking about that, with respect to procurement through installation.

Boyd: Could you give Ron Cook a copy of that so he can fax it to us?

Cook: I will try to fax it to you right away.

Boyd: I think that is important.

Al: Thank you very much.

Lead to believe all or most of instrumentation  
in place

Fragmented activity  
schedule

boring  
dewatering wells  
access shaft

ist



March 12 phone call list

# BECHTEL



## MIDLAND, MI

1-312-932-2665 OR 2693  
CONFIRM - 1-312-932-2659

ATTENTION: DR. R. LANDSMAN

CITY: GLEN ELLYN IL

FROM: RON COOK

NUMBER OF PAGES: 2

SUBJECT: JNDER PINNING

DATE: MARCH 12, 82 TIME: 3:12 PM

SHOULD THIS COPY BE RETURNED TO YOU? YES EX 538

Procurement of Material	Drawing and Specification	Procedure	Physical Work
<p>← Access Shafts Below 509'</p>			
<p>Soldier Pile</p>			
<p><i>all brass</i> } Tools and Equipment Torque wrench, jacks, gauges, threading machines.</p>	<p>Calibration on end inspection is Q.</p>		
<p><i>walors</i> Steel and wood lagging (shapes). <i>1/2" x 2"</i></p>			
<p>Rock Bolts (Williams). ← <i>Will be kept in the shaft</i> Drifts</p>			
<p>Steel sets material (pears) for access drift. (Offsite fabrication will be Q.)</p>			
<p>Wood lagging for access drift and wedges.</p>			
<p>Back packing material.</p>			
<p>Rock and earth anchors.</p>			
<p>← Filters</p>			
<p>Glue, for ethafoam behind metal lagging.</p>			
<p>← Instrumentation</p>			
<p>Raceway material</p>			
<p>Wire</p>			
<p>Steel brackets fabrication [Q material]</p>			
<p>Termination</p>	<p>Termination</p>	<p>Termination</p>	
<p>← (Check out is Q)</p>			
<p>Data room and HVAC to maintain constant temperature.</p>			
<p>Dial gages [Non-Q]</p>			

Historical	Completed Items	Inprocess Items	
<p><u>BWST</u></p> <p>Control Survey Settlement test during hydro.</p> <p>Stress relief on detensioning of bolts? (Lift off loads)</p> <p>Auxiliary Sldg.</p> <p>Fabrication and installation of temporary detensions.</p> <p>Fabrication and installation of temporary support of FIVP.</p> <p>Underground Utilities</p> <p>All data collection was done Non-Q</p>		<p><u>SWPS</u></p> <p>Deep seated bench marks and attached bracket and dial gauges.</p> <p>Procurement and installation of temporary tendons and support plates (stressing Q).</p>	

A access shaft below 609 → ① soldier piles - non Q already installed

purchase ONLY { ② tools & equipment - non Q

{ ③ steel & wood lagging

{ ④ rock bolts that secure walers to wall

B Drifts ① steel sets non Q } purchase only

② wood lagging

③ back packing of wood lagging

④ rock anchors

C Prers ① ~~Form~~ glue to secure form to lagging

purchase only

D Electrical instrumentation ① race way, wire of "brackets"

purchase & installation non-Q

checkout is Q

↑  
though it was always Q

② data room non-~~cur~~

③ dial gages purchased non-Q9AMES

ONLY TO COMMENT - DOES NOT  
CONSTITUTE AN APPROVAL

DON HORN  
517-631-8650 EX 277

Supports of FNIV Pit ←

April 6  
SWS  
DEB  
Judge hrbc  
Question  
↓  
RA



Attendees  
3/10/82

<u>Name</u>	<u>Organization</u>
Paul A. Hord	WBA4/NRR
E. G. Sullivan	WBA4/NRR
A. J. BOOS	BECHTEL
J. A. MOONEY	CPCO
Roger W. HUSTON	CPCO
W. R. BIRD	CPCO
R. B. Landsman	NRC-KIII
J. Gitray	NRR QAB.
R. J. COOK	NRC - RESIDENT INSPECTOR
D. M. BUDZIK	CPCO
James Brunner	CPC
RC Hirzel	CPCO
Joseph J. Kane	NRC   NRR   DE   HGEB
DONALD E. HORN	CPCO - MPQAD
FRANK RINALDI	NRE   NRR   DE   SEB
FREDERICK WILLIAMS	ISHAM, LINCOLN + BEALE
Neal Swanberg	Bechtel
Frank	NRR



Consumers Power

# QUALITY ASSURANCE PROGRAM POLICY

Page x  
Revision 11  
Date 11/18/81

## LIST OF DEFINITIONS

Safety-Related - The term applied to:

Structures, systems, components, materials, services or Operational Safety Actions or Activities named on the Q-List as necessary to assure:

1. The integrity of the reactor coolant pressure boundary.
2. The capability to shut down the reactor and maintain it in a safe condition.
3. The capability to prevent or mitigate the consequences of an accident which could result in potential off-site exposures to individuals in excess of exposures specified in 10 CFR 100.
4. The operation of the facility within Technical Specifications limits and Nuclear Regulatory Requirements.

Secondary Standard - An item of measuring and test equipment (M&TE) used to calibrate other M&TE. They are periodically calibrated using Reference Standards and reserved for use in the calibration of working plant or field M&TE.

Section - A subdivision of a department, usually made along lines of a technical specialty; eg, Nuclear Licensing, Health Physics, Nuclear Fuel, etc.

Services - Work performed by an organization or department having no deliverable hardware type end item other than the results of construction, modifications, repairs, inspections, audits, reviews, etc.

Source Inspection - Inspection of an item at a Supplier's facility during its manufacture, or at completion of manufacture, to verify implementation of the procurement requirements.

Spare Part - An item available for replacement for an item in use.

Special Nuclear Material (SNM) -

1. Plutonium, Uranium 233; uranium enriched in the Isotope 233 or in the Isotope 235; and any other material which the NRC, pursuant to the provisions of Section 51 of the Atomic Energy Act of 1954 as amended, determines to be special nuclear material, but does not include source material; or
2. Any material artificially enriched by any of the foregoing, but does not include source material.

Special Process - Those metallurgical, chemical, or other processes where assurance of the process activity is dependent on the use of qualified procedures, personnel, or equipment; and where assurance of quality cannot be by direct inspection of the in-process activity or final product. These include, but are not limited to, welding, heat-treating, NDE and environmental testing of the work process.

regulations, guidelines, or other factors separate and distinct from the components of the system itself. The system is considered as a unit, with boundaries as defined by Regulatory Guide 1.70 and must meet specific requirements. The design bases describe all essential characteristics of the system with sufficient clarity so that an experienced engineer, using these design bases and material referenced in the design bases, can understand the functions of the system with respect to the rest of the plant. Items implicit to contemporary design (e.g., use of the English system of weights and measures or the exercise of good engineering practice) are not specified.

#### 1.1.2.2.1 Safety Design Bases

Safety design bases directly establish or increase nuclear safety. Safety design bases provide for or assure the following:

- a. The integrity of the reactor coolant pressure boundary
- b. The capability to shut down the reactor and maintain it in a safe shutdown condition
- c. The capability to prevent or mitigate the consequences of accidents that could result in potential offsite exposures comparable to the guideline exposures of 10 CFR 100
- d. The accomplishment of specific structure, system, or component requirements which are important to safety

The control room operator action is considered as one of the fundamental means of achieving these criteria.

Safety-related structures, systems, and components important to safety are the portions of systems which are indispensable to nuclear safety. Items which are associated with safety-related equipment but which do not perform a nuclear safety function are not safety-related.

Redundancy requirements and system performance conditions are considered a feature of the equipment's capability to shut down the reactor safely or to prevent or mitigate accidents.

#### 1.1.2.2.2 Power Generation Design Bases

Power generation design bases are those design bases which are not related to nuclear plant safety. They need not relate directly to the generation of power; however, they relate at least indirectly to power generation in the sense that all station requirements which are not imposed for safety reasons support the major function of the station as a whole; i.e., the generation of electrical power and process steam. An example of

a power generation design basis is the requirement to provide domestic water for plant personnel.

# Safety Related Activities

Oct 1  
Jan 7 letter  
Jan 12

access shaft  
drill under turbine  
digging shafts

[

① general plan ok

~~duw building~~

permanent supports Q  
"temporary" supports not Q

Monitoring Q

[ effects of non-Q on Q stuff is Q ]  
i.e. v supports under central tower are Q because part of  
underpinning  
fins well

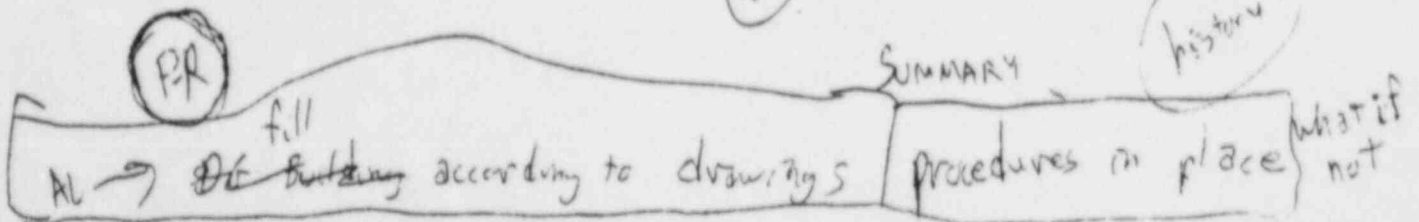
\* position 2 may guide 1.29 → "ONLY FOR DESIGN"

\* Q list →  
QA list → no UCRs etc. NOT come in its integrity  
non Q

we let you do it once

(15th)

(history)





Phase I

Phase II

REACTOR BUILDING UNIT 1

Buttress Access Shaft

FIVP

West Underpinning Access Shaft

Access Shaft Bracing (Typ.)

Soldier Pile (Typ.)

Wood Lagging (Typ.)

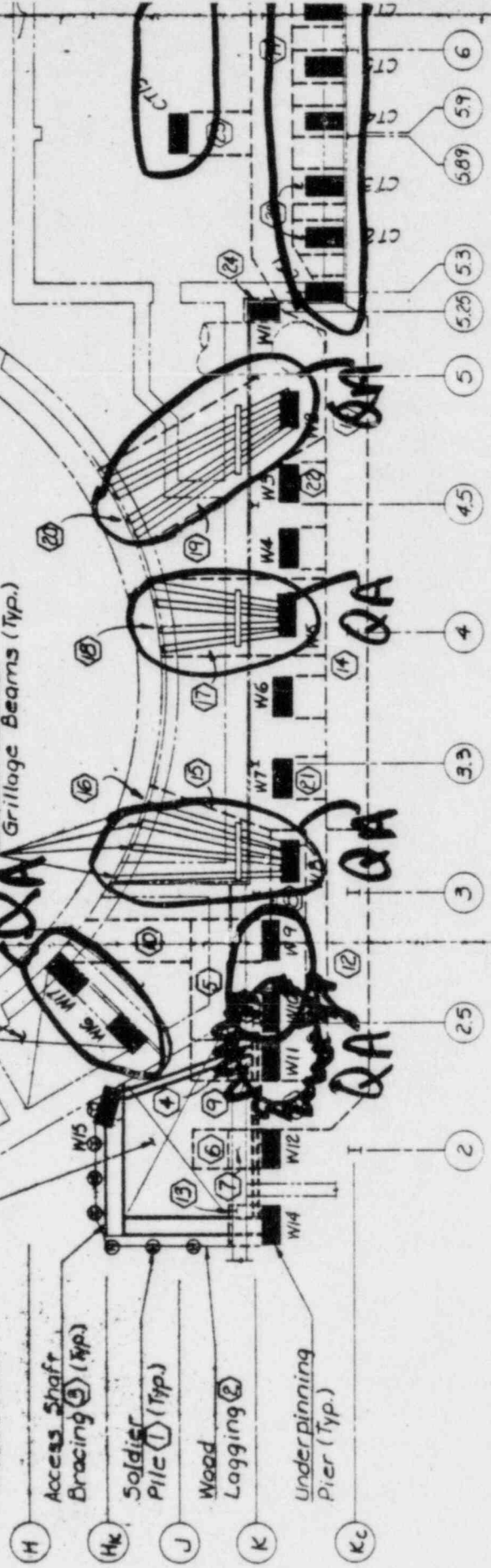
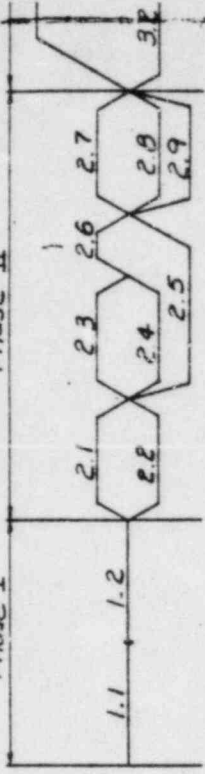
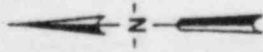
Underpinning Pier (Typ.)

Underpinning Grillage Beams (Typ.)

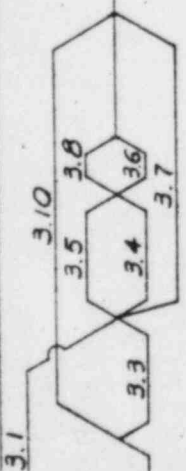
CONTROL

CONSTRUCTION

TURBINE



Phase III



SEQUENCE LOGIC

REACTOR BUILDING UNIT 2

East Underpinning Access Shaft

Access Shaft Bracing (Typ.)

Soldier Pile (Typ.)

Wood Lagging

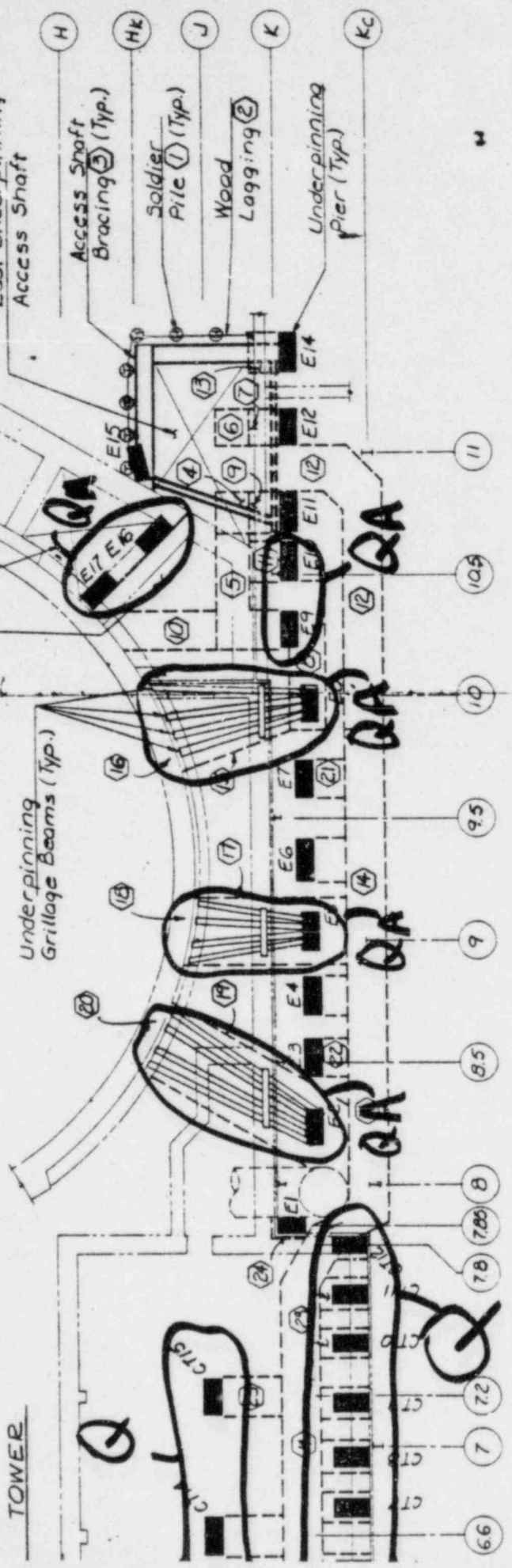
Underpinning Pier (Typ.)

Puttress Access Shaft

FIVP

Underpinning Grillage Beams (Typ.)

TOWER



E BUILDING



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

MAR 12 1982

Docket Nos: 50-329  
and 50-330 OM,OL

APPLICANT: Consumers Power Company  
FACILITY: Midland Plant, Units 1 and 2  
SUBJECT: SUMMARY OF MARCH 10, 1982 MEETING CONCERNING QUALITY ASSURANCE TO BE APPLIED TO REMEDIAL FOUNDATION WORK

On March 10, 1982, the NRC Staff met in Bethesda, Maryland with Consumers Power Company and Bechtel Power Corporation to discuss the application of quality assurance to remedial foundation work. Specifically, applicability to work related to underpinning of the electrical penetration areas of the Auxiliary Building and of the Service Water Pump Structure and to construction of the new Borated Water Storage Tank foundation ring was discussed. A list of meeting attendees is attached as Enclosure 1. Enclosure 2 is a compilation of the materials handed out and discussed at this meeting.

SUMMARY

A draft of the Quality Plan for Underpinning Activities was submitted for NRC review by Consumers Power Company letter dated January 7, 1982. During the course of its review, the Staff had requested to be provided with a listing of items and activities to which the plan would not apply (i.e., "non-Q" activities). The meeting was held to allow the Applicant and his Architect-Engineer to discuss in detail the applicability of this plan.

The Applicant informed the Staff that the Quality Plan has recently been finalized as MPQP-1. It was transmitted by Bechtel by CPCo (WRBird) letter dated March 3, 1982 (see Enclosure 2).

The Staff noted that the programmatic aspects of the quality plan submitted January 7 appeared to be in full compliance with Appendix B of 10CFR50 and are acceptable. Issuance of formal acceptance is awaiting the discussion of the extent of the program's applicability and specifically the items which it will not cover. Due to the nature of this work, the Staff's initial consideration is that essentially all construction activities related to the remedial work should fall under this program.

CPCo and Bechtel sought to limit full program applicability to those items which they considered safety-related. This term is defined in the accepted CPCo Quality Assurance Topical Report and in section 1.1.2.2.1 of the FS/ (see Enclosure 2). From a technical design viewpoint, Bechtel proposed the following clarifications as the logical application of these definitions to the remedial work:

1. Only permanent supports/structures need be Q listed.
2. Temporary (i.e., construction) supports need not be Q.

MAR 25 1982

~~8204290107~~

3. Support of non-Q structures (e.g., turbine building) is inherently non-Q.
4. Procedures for manipulation of a safety structure (e.g., jacking) are Q when the manipulations produce final input loads. For example, jacking from a temporary support is non-Q, not because it is not important but because it is not relied on for the safety of the structure following fuel load when the health and safety of the public could potentially be at risk.
5. A monitoring program to determine the effect on safety-related structures of all work, including temporary (i.e., non-Q) loads will be in place. The monitoring program will be Q.
6. Non safety-related buildings and supports which can affect safety-related structures are non-Q. However, the evaluation of the effect of such structures on safety structures is Q.
7. Given the above points, the conclusion must be drawn that installation of temporary underpinning where it will ultimately become a part of the permanent underpinning (i.e., under the control tower) is Q. Temporary support of the electrical penetration areas, not to be a part of the final support, is non-Q, however the evaluation of its effect on the structure is Q.

CPCo noted that the key point in the above items is that adverse impact on a structure from the temporary work has a potential impact on plant licensability, but not on health and safety. CPCo acknowledged, however, that quality control on some work which would not be defined as Q in accordance with the above is desirable considering the nature and extent of this work. CPCo therefore proposed a new designation of "QA". Items and activities so designated would be treated by CPCo, Bechtel, and their construction contractors exactly as Q items except for reportability to the NRC. A portion of the Auxiliary Building construction sequence drawing designating those piers to be Q and those to be "QA" was discussed (see Enclosure 2).

There are certain activities related to the underpinning work which would fall in neither of these categories. An example discussed at some length was excavation of the drift (tunnel) under the turbine building (non-Q). Although final construction drawings, preparation of which would involve a final classification, are not complete, the Applicant agreed this work would probably fall into neither category. The Staff noted that failure to properly install the associated bracing could have an immediate effect on the Auxiliary Building. The Applicant contended that the monitoring program for the Auxiliary Building, which is accorded Q status, would detect such an effect.

During the discussion, the Applicant expressed concern that a Q-listing automatically required the imposition of numerous difficult requirements which might not relate to the real concern. The Staff disagreed, noting that 10CFR50 Appendix B provides that QA shall be implemented to the extent commensurate with the impact on safety; for example, while it does not matter what implement is used to remove soil when digging an access shaft, the location, size, and depth of the shaft are important.



Meeting Summary  
Midland Plant

3

Following a private caucus, the Staff responded to the applicant's proposals as follows:

The Staff did not accept the concept of the "QA" Classification. The Staff considers that all activities beginning with phase 2 work should be Q listed except on very specific items which can be shown on a specific basis to justify non-Q treatment. NRR concurrence in this justification must be obtained prior to conducting any work efforts completely outside the quality plan.

The Region will continue the level of involvement of the recent past. Every drawing and specification does not require Region III concurrence before use, although they must be completed and available prior to commencing the work they cover. In preparing and approving these documents, individual detailed activities which require or do not require specific QA controls shall be specified in accordance with the quality plan and considering the flexibility inherent in 10CFR50 Appendix B. The Staff rejects the philosophy of reliance on the monitoring program as the sole Q protection for safety structures. The process controls which preclude the attainment of undesirable effects which the monitoring program would detect must be subjected to the full rigor of the MPQAD program.

With respect to the items of design philosophy enumerated above, the Staff disagrees with numbers 1, 2, 3 and 7. The Staff disagrees with the limitation of number 4 to final input loads. The Staff agrees that the monitoring program of number 5 must be Q but rejects the concept of this as the sole Q protection for safety-related structures. The Staff disagrees with the aspects of number 6 which classify non safety-related buildings and supports as non-Q but agrees the evaluation of effects must be Q as well as related construction and design work.

It was agreed at the conclusion of the meeting that the applicant must submit a letter, prior to beginning phase 2 work, which provides the information agreed to in the March 8, 1982 telephone call with Mr. J. D. Kane of the Staff (see Enclosure 2). The NRC will take specific action on this submittal prior to the start of phase 2 work.



Darl S. Hood, Project Manager  
Licensing Branch No. 4  
Division of Licensing

Enclosures:  
As Stated

cc:  
See Next Page



*S GARDNER*

*17600/183  
201*

AUG 20 1982

MEMORANDUM FOR: James A. Fitzgerald, Acting Director, Office of Investigations

FROM: James G. Keppler, Regional Administrator, Region III

SUBJECT: MIDLAND-REQUEST FOR INVESTIGATION

During an inspection of remedial soils activities at the Midland site, Dr. Ross Landsman of the Region III Midland Section identified two instances of apparent violation of the April 30, 1982 ASLE Order. Dr. Landsman contends that the licensee, in direct violation of the Board Order, excavated below the deep "Q" duct bank and initiated fireline relocation activities in "Q" soils without prior NRC authorization. A copy of the memo addressing his findings is attached.

A management meeting was held on August 11, 1982 at the Midland Site. The licensee's position, as stated during this meeting, was that the ASLE Order was not violated. The licensee contends that their actions, in both instances, were based on prior understandings of the NRC requirements pertaining to the ASLE Order and prior approvals granted by the NRR staff.

Because of our concern with communications misunderstandings at the Midland project and the seriousness of this matter, Region III requests OI investigate this matter as expeditiously as possible. NRC personnel familiar with this matter include Dr. Ross Landsman, Ron Gardner of Region III and D. Hood, J. Kane of NRR. Region III will, of course, provide technical assistance as required.

We appreciate your cooperation in this matter and will be glad to discuss any questions you may have.

Original signed by  
A. Bert Davis

James G. Keppler  
Regional Administrator

Attachment: As Stated

*2303160775 w  
for  
~~8303160778~~*

OFFICE	R III	R III	R III	R III	R III	R III
SURNAME	Landsman/lc	Gardner	Shafer	Warnick	Davis	for Keppler
DATE	8/17/82			7/17/82	8/18	8/18

AUG 20 1982

cc w/encl:

DMB/Document Control Desk (RIDS)

Resident Inspector, RIII

The Honorable Charles Bechhoefer, ASLB

The Honorable Jerry Harbour, ASLB

The Honorable Frederick P. Cowan, ASLB

The Honorable Ralph S. Decker, ASLB

Michael Miller

Ronald Callen, Michigan

Public Service Commission

Myron M. Cherry

Barbara Stamiris

Mary Sinclair

Wendell Marshall

Colonel Steve J. Gadler (P.E.)

R. F. Warnick

W. D. Shafer

R. N. Gardner

R. B. Landsman



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

AUG 24 1982

MEMORANDUM FOR: W. D. Shafer, Chief, Midland Section  
FROM: R. B. Landsman, Soil Specialist  
SUBJECT: VIOLATION OF ASLB ORDER OF APRIL 30, 1982

When Darl Hood and Joe Kane were in Midland for an ACRS hearing, I asked for a meeting to be held on site between NRR, Bechtel, the licensee and myself. The meeting took place on a Thursday afternoon in the Remedial Soils Trailer (May 20, 1982). The purpose of the meeting was to discuss numerous concerns that I had about ongoing work and future work.

One of the concerns discussed was a monitoring pit for what has come to be known as the deep "Q" duct bank. During that meeting both NRR and I expressed our concerns that what the licensee was planning was not approved, that is: to excavate below the duct bank. NRR only approved an excavation down to a duct bank approximately 22 feet deep. This is documented in an NRC Tedesco to Cook letter dated February 12, 1982, which references a CPCo Mooney to Denton letter dated January 6, 1982.

Since the licensee usually does not know what is in the ground or where it is, as usual the 22 foot duct bank was found at approximately 35 feet. It also was not in the right location as evidenced by the monitoring pit sheet piling hitting one side of the duct. In addition, while drilling a nearby dewatering well, they inadvertently drilled into the duct bank, emptying the well drilling fluid into the turbine building through the duct.

I had no problem with the licensee taking the excavation pit down to 35 feet instead of the approved 22 feet, since the methodology of the approved excavation remained the same. NRR and I did have a problem with the licensee wanting to excavate below the duct bank to impervious clay in order to seal off the water flow, without first informing NRR of their plans and obtaining their prior approval.

All of the above was discussed during the meeting. The licensee was informed that they could not excavate below the deep "Q" duct bank. The licensee indicated that they would submit something formal to NRR for approval.

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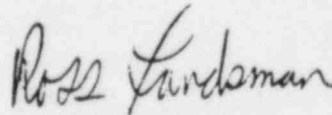
The following day, I warned them during the normal exit meeting and again during the summary at the end of that meeting that they did not have prior NRR approval. I asked if everyone understood what I was saying and they acknowledged.

The following week, during my inspection to allow the licensee to activate the freeze-wall, I warned them again that they could not dig below the deep "Q" duct bank because they did not have prior NRR approval.

Subsequently, after the activation of the freeze-wall, the licensee apparently decided that they had to seal off the water flow beneath the duct bank and proceeded to dig below the duct bank without NRR approval. I'm not sure when excavation began, but I was on site July 28 when I discovered the excavation in progress. The licensee, when informed of my concern, issued a Stop Work Order on July 29, 1982. I wondered why they were so agreeable until I found out that they already had the excavation down to where they wanted it (the clay).

I informed the licensee during my exit on July 30, 1982 that they were in direct violation of the Board Order and their Construction Permit. To make matters worse, the licensee during the exit, said that they discussed this with Messrs. Hood and Kane in Ann Arbor earlier that morning and had received "Approval concerning the technical adequacy" for what they were doing. I informed the licensee that they missed the point (basis of concern). My concern dealt not with the technical adequacy of what they were doing, but rather with their ASLB order requirement to notify and receive prior staff approval before proceeding below the duct bank. Subsequently, Mr. Kane indicated to me that they never even talked to him about this. Mr. Hood indicated that they talked to him about something concerning the deep "Q" duct bank, but he in no way had given approval.

Subsequent to my leaving the site, the licensee began what I consider to be another unapproved excavation in "Q" soils. This excavation, which involves the relocation of a fire line was discovered on August 4, 1982, during my next inspection. This excavation is along side the service water pump structure. I have not had time to look into this matter to better define the details, but as pointed out to you and Darl Hood, they have undermined a duct bank, an unidentified pipe thrust block, and appear to be along side a safety-related duct bank.



Ross Landsman,  
Soils Specialist

cc: R. F. Warnick