

TERA

September 7, 1983

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Mr. J. G. Keppler
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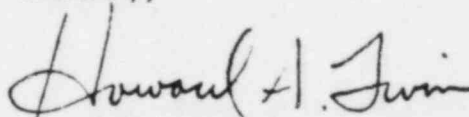
Mr. D. G. Eisenhut
Director, Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket Nos. 50-329 OM, OL and 50-030 OM, OL
Midland Nuclear Plant - Units 1 and 2
Independent Design and Construction Verification (IDCV) Program
Meeting Summary

Dear Sirs:

The second meeting on Confirmed Items was held on August 26, 1983. A summary is provided to document items discussed and actions agreed upon by the participants.

Sincerely,



Howard A. Levin
Project Manager
Midland IDCV Program

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PDR ADOCK 05000329
A PDR

cc: Participants
Midland IDCV Service List
F. Buckman, CPC
D. Miller, CPC (site)
B. Palmer, CPC (site)
D. Hood, NRC
J. Taylor, NRC, I&E HQ
P. Keshishian, NRC, I&E HQ

Enclosure

HAL/djb

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**SUMMARY OF SECOND MEETING
ON CONFIRMED ITEMS
AUGUST 26, 1983
MIDLAND IDCVP PROGRAM**

A meeting was held on August 26, 1983 at Bechtel's Ann Arbor, Michigan offices to obtain additional information related to Confirmed Items identified in IDCVP Monthly Status Reports dated May 27, 1983, July 15, 1983, and August 16, 1983. The status of actions taken in response to IDCVP Findings was discussed as well as programmatic options associated with the Ford Amendment. Attachment 1 identifies the attendees of the meeting which included representatives from TERA, CPC, Bechtel, NRC, and B&W. Attachment 2 presents the agenda for the meeting.

The meeting opened with an introduction of participants. The initial discussions focused on the schedule and logistics for providing additional documentation concerning outstanding items. TERA reiterated details of the IDCVP reporting process, differentiating between the type of information required in response to Confirmed Items versus Findings or Findings resolution. It was pointed out that information associated with Confirmed Items should generally be existing information that may not have been previously available to the IDCVP project team or, alternatively, brief clarification of existing information. Findings or Findings resolution may require the generation of new information. All parties agreed that information supporting Confirmed Items and other existing information would be transmitted to TERA within 10 days of request with an indication of the status (i.e., partial or complete) of the response relative to specific Confirmed Items. The schedule for Findings or Findings resolution would be worked out on a case-by-case basis. This agreement will provide an improved basis for IDCVP planning.

The status of outstanding Confirmed Items and Findings, as well as new Confirmed Items and Findings, was discussed next. The responsible lead TERA personnel described each item followed by a discussion by representatives of either CPC, Bechtel, or B&W as appropriate. Mr. Howard Levin, TERA,

Mr. Lou Gibson, CPC, Mr. Jerry Clements, Bechtel, and Mr. Jim Agar, B&W, coordinated the discussions for their respective organizations.

The following descriptions, by item, highlight important issues discussed and any course of action identified during the meeting.

3201-008-C-005

This item addresses a potential generic issue related to conflicting data on AFW system design parameters associated with Confirmed Items C-017, C-018, C-020, C-027, and C-028. CPC pointed out that apparently conflicting design criteria may, in fact, be valid depending upon how these criteria were utilized in specific design calculations/evaluations. It follows that what may appear to be a bounding assumption in one scenario may not be bounding in another, particularly if applied out of context (i.e., a conservative assumption in one calculation may not be the most conservative in another). They further indicated that in certain circumstances the Midland plant may be designed to a specific set of criteria, yet evaluated against other criteria such as NRC Branch Technical Positions. TERA questioned the process by which the FSAR was checked and cross-checked within Bechtel groups and between groups. Bechtel described the procedure. Bechtel committed to provide clarification in conjunction with their response to Confirmed Items C-017, C-018, C-020, C-027, and C-028. TERA will review this information and also selectively evaluate FSAR changes.

3201-008-C-017

B&W indicated that the AFW flow rates documented in B&W document BAW 1612, Rev. 1, do not apply to Midland. Midland AFW flow requirements are established in B&W document 32-0525-00, January 27, 1974. A letter and supporting evaluation from Agar, B&W, to Gibson, CPC, dated August 25, 1983 addresses the acceptability of the 850 gpm AFW flow requirement. TERA will review this reference. Bechtel will provide further clarification and document along with a response to C-005.

3201-008-C-018

This item questions which decay heat curve the Midland project is committed to meeting (i.e., B&W curve or BTP APCSB-9.2). Bechtel indicated that SAR Change Notice No. 4067 will clarify any potential misinterpretation associated with the design bases for the decay heat load. B&W indicated that the Midland design was based upon a B&W decay heat curve documented in B&W manual 18K1, December 3, 1969. In the August 25, 1983 letter, a comparison is made to BTP APCSB-9.2 criteria. TERA will review the SCN and the August 25, 1983 letter. Bechtel will provide further clarification and document along with a response to C-005.

3201-008-C-020

Bechtel will provide further clarification along with a response to C-005.

3201-008-C-027

Bechtel indicated that SAR Change Notice No. 4067 clarifies the Midland design basis to be 2552 MWt. TERA will review this SCN.

3201-008-C-028

It was noted that this item primarily relates to the consistency between design parameters. The impact on the reactor coolant system components was discussed and generally agreed by all parties to be insignificant. Bechtel and CPC indicated that if service water was used as a source of AFW an evaluation would follow including an evaluation of the impact of low water temperature, as appropriate. Bechtel will provide further clarification and document this along with a response to C-005.

3201-008-C-025

CPC indicated that a DCAR was pending which simplifies the method by which an operator takes action to invert FOGG. Bob Hamm, CPC and Brent Brooks,

B&W were identified as contacts on this issue. CPC will send TERA the DCAR and TERA will initiate further review to evaluate revised direction being taken with respect to FOGG and ATOG.

320I-008-C-03I

Bechtel indicated that they had completed actions necessary to correct deficiencies noted with Findings F-032 thru -036 and that they would document these formally. TERA indicated that review was continuing to assess the process by which field changes are reconciled with the design.

320I-008-C-037

TERA indicated that this specific issue would be considered resolved in view of FSAR revision 47 which corrects the noted inconsistency. In conjunction with continuing efforts related to C-005, TERA will selectively evaluate FSAR changes.

320I-008-C-038

Bechtel indicated that the AFW pump minimum flow valve did not have to be powered from battery backed power because recirculation through the line was not required during the assumed 2-hour blackout period. Bechtel has received a telex from the pump vendor attesting to the pumps performance at a minimum flow of 100 gpm. Bechtel will secure backup for this ascertainment and transmit it to TERA for review.

320I-008-C-022

Bechtel indicated that the steam generator level control system performance would be tested during the startup test procedures. TERA questioned whether the full performance range under potential varying plant conditions could be simulated during these tests and if analyses might be required to supplement the startup testing. CPC indicated that such testing is considered sufficient to demonstrate the adequacy of the system. Bechtel described a Foxboro Shop test

of the control system which they witnessed. Foxboro initiated this test even though it was not required by spec due to the complexity of the control loop. CPC will transmit the requisite startup test procedure for TERA's review.

320I-008-C-048

Bechtel is currently pursuing documentation from the vendor documenting the equipment capability to withstand a 120°F maximum temperature. They indicated that the 120°F has been required by specification. Bechtel will provide the documentation for TERA's review when received.

320I-008-F-012

MCAR 68 was initiated in June addressing this Finding. A final report was completed on August 15, 1983 which documents both specific and generic actions taken for resolution. TERA will review this information.

320I-008-F-036

Bechtel acknowledged that due to inattention to detail certain dimensional errors on drawings do exist where portions of these drawings have been modified due to field changes. The Plant Design group has reviewed 341 FCRs against isometric drawings and has found dimensional discrepancies associated with 9 FCRs. Accordingly 7 isometric drawings will be revised. Bechtel pointed out that after the piping is installed, dimensional discrepancies to the building centerlines have little impact. Bechtel will summarize the results of their evaluation in a letter to CPC. TERA will review this information when available.

320I-008-C-047, F-045, F-046

TERA indicated that the two Findings relate to specific discrepancies noted between vendor recommended storage and maintenance requirements and project procedures and actions. The Confirmed Item was generated later after several similar instances were noted by the ICV project team, potentially pointing to a

more generic issue. CPC and Bechtel acknowledged the situation presented by these OCRs and have created a Task Force whose charter will be to reconcile manufacturer and project requirements, status the current situation and see that reconciled storage and maintenance procedures are followed in the future. TERA will review the Task Forces' charter and selectively evaluate the implementation of their activities. MPQAD representatives indicated that they had completed an audit in this area and would forward their report to TERA for review.

Programmatic options associated with the Ford Amendment were discussed. CPC described the options that were identified during an August 5, 1983 public meeting in Bethesda. The NRC representatives questioned salient features of each of the identified options. A specific conclusion was not reached on this issue. The NRC representatives indicated that future discussion would take place after they had consulted with their management.

A general discussion was held relative to the interface between the CCP and ICV programs. A principal issue is the extent of construction verification progress that the ICV can attain in view of the status of project completion and the fact that the CCP does not have full approval by NRC. TERA indicated that in view of the fact that the CCP must be considered the primary construction vehicle, that independent verification should not take place until the CCP has "QC'ed" portions of work. It was agreed that proceeding on this basis was feasible verses waiting until each of the three IDCVP systems were turned over in whole. While the proposed ICV approach has scheduler advantages, certain efficiency and resource tradeoffs are apparent. These will be the subject of future discussions.

The meeting was adjourned.

MEETING NOTICE

Attachment 1



BECHTEL JOB NO. 7220
PROJECT Midland Plant Units 1 and 2

SUBJECT OF THE MEETING

INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION (IDCV)

DAY Friday, August 26, 1983

TIME 9:00 a.m. TO 4:00 p.m.

LOCATION Bechtel AAO, Conference Room 1/B1

ATTENDEES

NAME	ORGANIZATION
Jerry A. Clements	Bechtel - Project Coordinator for IDCV
Louis Gibson	Consumers - Proj. Engrg.
Robert Waznick	NRC - RTH
George C. Fower	NRC - IE - HQ
William Miller	NRC - NRP - DL
R.C. Hollan	Bechtel Quality Engrg.
R. F. TULLOCH	Bechtel PLANT DESIGN
R. NICOLAUS	BECHTEL - MECH
M. F. MAU	BECHTEL - MECHANICAL
E. M. HUGHES	Bechtel - Project Engineer
J. P. KNIGHT	CPCO MPOD Jackson
McLagle	CPCO DQAE A ²
Jim Agar	BEW Project Engineer
Brian Harrington	CPCO - Lic
G. E. SETKA	TERA
L. D. Bates	TERA
R. P. SNAIDER	TERA
D. B. TRODIESKI	TERA
M. B. JONES	TERA
F. A. Dougherty	TERA
H. LEVIN	TERA
Burg	Bechtel - licensing
D. M. Budzik	CPCO
N. Leech	"

* Afternoon

ATTACHMENT 2

AGENDA FOR AUGUST 26, 1983 IDCVP MEETING BECHTEL OFFICES ANN ARBOR, MICHIGAN

<u>Item</u>	<u>Lead</u>	<u>Time</u>
1. Response to Confirmed Items		
A. Discussion of the schedule for providing additional documentation concerning outstanding items	H. Levin/ L. Gibson/ J. Clements	9:00 am
B. Status of IDV Confirmed Items (items discussed at June 3 meeting which are still at the Confirmed Item stage): C-005, C-017, C-018, C-020, C-025, C-027, C-028, C-031, C-037, C-038	CPC/ Bechtel	9:30 am
2. New Confirmed Items		
A. C-022	L. Bates	11:00 am
B. C-047	D. Tulodieski	11:15 am
C. C-048	F. Dougherty	11:30 am
3. LUNCH		
4. Status of Findings: F-012, F-036	CPCO/Bechtel	12:30 pm
5. New Findings: F-045, F-046	D. Tulodieski	1:00 pm
6. Discussion of programmatic options associated with the Ford Amendment	D. Hood	1:15 pm
7. Interface of CCP and ICV programs	D. Tulodieski/ L. Gibson	2:30 pm
8. Summary	H. Levin	3:00 pm

SERVICE LIST FOR MIDLAND INDEPENDENT DESIGN
AND CONSTRUCTION VERIFICATION PROGRAM

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