RNMENT ACCOUNTABILITY PROJECT Lie for Policy Studies of Que Street N.W. Washington D.C. 20009

10 Bruce Burgess Fm.: Ron Gardner

Poril F. 7984

Mr. James G. Keppler Regional Administrator U.S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, Illinois 60137

Mr. Michael L. Devices Director, Inspection one Enforcement U.S. Auclear Regulatory Commission Washington, D.C. 20555

Dear Mr. Keppler and Mr. DeYoung:

On March 7, 1984, Consumers Power Company (CPCo) submitted its proposal for the independent management audit required by the NRC pursuant to a Director's Decision (DD 82-04) issued January 6, 1984, and agreed to by CPCo in October, 1983.

Our initial review of the submitted proposal indicates a number of flaws which we would like to address. (We expect that a public meeting on the proposal will be held in the near future.)

The principal flaws are outlined below:

1. Independence

A. The firm of Cresap, McCormick and Paget appears to be independent, according to the criterio outlined in SECV 82.

We request more details on the 1963 compensation analysis of finance positions of CPCo. In porticular, the names of the personnel who worked on the analysis.

E. The personnel nominated, except for the inciviously listed below, appear to meet the independence criteria.

We would like to review the afficevits of incepensence of the individuals who will be working on the audit.

was developed from the February 1, 1983, letter from Nobelo J. Palladino: Charrman, U.S. Nuclear Regulatory Commission to Honorable Charman John D. Dingell, Chairman, Committee on Energy and Commerce, U.S. house of Representatives.

We would like to request a delineation of these proposed study team members who have worked on projects for which Bechtel was the prime contractor, or in which Bechtel had a significant role in the design or construction.

Personnel Exceptions

- 1. Jeffrey A. Schmidt Please Clarify role to the PSAE Diable Canyon audit.
- 2. Patrick A. Nevis What Sargent & Luncy project is his experience?
- Sregary I, adjust
 Secure to an all subsidiary.

C. TERA Corporation

We strenuously reject the motion that TERA is capable of the dual role of Independent Design Verification and Construction Program (IDVCP) and management auditor. We believe it compromises both TERA's IDVCP effort and the management audit.

We expect the stoff will agree with TiRA's conflict of interest and reject their role.

11. Protocol

We agree that any management audit has a 'clear need for prompt access to-all information required for the conduct' of the audit. (Proposal, Sec. VIII) we also agree that it would be inappropriate to notify the NRC prior to each contact with CPCo.

Our disagreements with the proposed protocol center expand:

- Inc submission of draft reports, recoverations, or findings to CPED. (Proposal, Protocol)
- 2. The compute of rectings reporting findings or conclusions in account of completing its report. Ic.
- 3. The relention and transmitted or support about documentation.

III. Competence

We are presently reviewing the distory and performance of this company through contacting the parties involved in the projects listed by DMP. Our review will be presented as an appendum to our prepared comments to the DMP proposal.

IV. Objective and Scope (Chapter 1); Approach & Morkplace (Chapter II); Representative Issues and Questions to be Appressed in Interviews (Chapter VII)

We are confused at the above-listed chapters. The thrust of the audit does not address the problems which led to the NRC decision to require the audit in the first place.

DD 82-04 States that:

Since the start of construction, the facility has experienced significant quality assurance (QA) problems. Although the licensee took corrective actions in each case, problems continue to be experienced in the inchestration of the Contract (DE action).

The specific order2/ requires a plan to include:

(1) An appraisal conducted by an independent management consultant organization retained by the licensee to evaluate the licensee's current organizational responsibilities, management controls, communications systems and practices, poth at Midland site and between the corporate office and the site. The appraisal shall include a review of the licensee's site and corporate construction management and supervisory personnel involved in the Midland project to determine their capability and competency for managing construction activities consistent with regulatory requirements.

The plan, as submitted, ones not comply with the above requirements. It contains only a "forward look" at the personnel and plans for finishing the Midland plant. The failure to include any "backward" look to determine the cause of the problem, makes the entire proposal a waste of everyone's time.

Sincereig.

RIL For Gar. Co

Billie Firmer Serde Entirens Climic Director

^{2/}In view of the foregoing, pursuant to Sections 103, 161(i), 161(o) and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Part 2 and 10 CFR Part 50.

MRR

1. Midland

Consumers Power Company has released the enclosed Press Release noting its Board of Director's endorsement of continued construction of Unit 2 of the Midland Plant, and announcing revised schedule and cost information. The Company's new schedule for Unit 2 commercial operation is December 1986 (previously February 1985). The Press Release does not mention fuel load dates. However, assuming the same differential from F.L. to C.O. as in the Company's previous schedule would indicate a Unit 2 FL date about July 1, 1986 (previously Oct. 1984). The Company's cost for Unit 2, with needed common facilities, upon completion is estimated to be \$3.95 billion (previous estimate for both units was \$4.43 billion).

The Board of Director's cautions that agreements with the Michigan Public Services Commission and elected state officials are still needed and discussions to this end will continue.

No direct mention of Unit 1 is made in the Press Release.

. Point Beach Nuclear Plant, Unit 1

On April 7, 1984 during hot rod drop testing, rod in position H-6 failed to drop during no-flow conditions. The rod had previously been dropped successfully during full reactor coolant flow conditions. At the time that the rod failed to drop, coolant temperature had drifted to 520 degrees F. One pump was started to heat back up and the rod was successfully dropped at 527 degrees F. After heatup, the rod was successfully dropped three more times under no-flow conditions. The problem was believed to be a hang-up of the rod stepping mechanism. The reactor was taken critical at 7:40 a.m. on April 8, 1984 after core physics testing and the unit was placed online on April 9, 1984. The unit had been shut down since October 1983 for refueling and steam generator replacement.

Major work performed during this outage included steam generator replacement, rod control cluster assembly (RCCA) guide tube split pin inspection, ISI reactor vessel inspection, TMI modifications, IEB 79-C1B modifications, ILRT, main steam reheat (MSR) tube bundle replacement, feedwater heater replacement, extraction steam piping replacement, 100% fuel visual inspection and sipping, replacement of 21 and 33 RCCA's, component cooling water heat exchanger modification, RHR heat exchange inspection, and installation of loose parts monitor.





General Offices: 212 West Michigan Avenue Jackson, Michigan 49201 (517) 788-0333

JACKSON, Michigan, April 10, 1984--The following was issued today by Consumers Power Company.

After careful review, the Board of Directors concurs with management that Unit 2 of the Midland nuclear project can be completed, licensed and placed in commercial service by December 1986, and is in the long-range best interests of the State of Michigan and the Company's shareholders. At completion it will carry a cost of 3.95 billion dollars including allowance for funds used during construction.

The Board recognizes that financing for completion of Unit 2 cannot be obtained unless the completion plan is concurred in by the Michigan Public Service Commission and elected State officials. To that end, management is authorized to continue discussions with representatives of the Michigan Public Service Commission and the office of the Attorney General and others as appropriate to examine all options regarding the future of the Midland project. In the event no plan can be agreed to, the Board is prepared to support those actions required to protect shareholder equity.

In view of the uncertainty of the situation, at present, the Board has voted to reduce the common stock dividend to 35¢/share payable May 20, 1984. All preferred and preference dividends will be paid in full as required by the particular issue.





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MIDLAND, MI, April 12, 1984 -- Reports of yesterday's press conference on the Midland Nuclear Plant have indicated some confusion regarding rework assumptions in the new project schedule. One of the reasons the Company feels confident in its new schedule projections is our ability to estimate what additional construction work may result from our total reinspection program for the plant. Based on our 1983 inspection work and detailed planning we have established a conservative allowance in direct craft construction hours to address those inspection findings that require any type of modification of the existing hardware. Our experience to date has been good in that no major hardware deficiencies have been identified. However, some amount of minor finishing or touch-up of previous construction may be necessary to bring the "as-built" conditions of each piece of this plant into full conformance with the design drawings. This is a standard finishing technique for any facility but is one that is hard to estimate until the actual inspections are done. While the overall allowance for this activity is a significant fraction (40%) of the to-go direct craft construction hours it is only a relatively small fraction of the to-go cost estimate and is an even smaller fraction (less than 2%) of the total cost of the facility.

CLIPPING SHEET

CLIPPED FROM Midland Daily News

CLIPPED BY KLPockrandt

DATE OF ISSUE 4/12/84 CITY Midland



N-plant audit unacceptable to regulators

By DAVE SHANE Daily News staff writer

A plan to appraise management at the Midland nuclear project submitted by Consumers Power Co. is not acceptable to the Nuclear Regulatory Commission, the NRC said today.

Ted Ankrum, chief of the NRC's Quality Assurance division, said his office has written NRC Region III officials to request "considerable" revision of the plan. Consumers Power was requested by the NRC in January to submit a plan to appraise its management at the Midland construction project.

Ankrum said Consumers' plan to have Cresap, McCormick and Paget of New York conduct the appraisal was "absolutely void of any type of retrospect.

"We have difficulty understanding how you can figure out what's wrong when you can't figure out how you got to where you are," Ankrum said.

Ankrum said he understands that Region III officials are using the recommendations of his office in sending a letter to Consumers, probably within a week.

Region III spokesman Chuck Norelius said today he was unsure if the letter to Consumers had been sent yet. Consumers spokesman Paul Knopick said today he was not sure if one had been received by his firm.

Knopick also declined comment on Ankrum's statements pending receipt and evaluation of the letter from Region III.

Ankrum said the appraisal plan "didn't look back on the history" of mistakes made at the plant.

"Generally, there were quite a few changes that need to be made," he said. "Let me assure you we are not treating this mangement review as a cursory exercise. We expect it to be a very useful product."

Among the requests made by Ankrum are details on the involvement of the TERA Corp. in the management appraisal. TERA, which has been involved in other work at the plant site, has been asked by CM&P to provide technical assistance in its work.

"We couldn't reject TERA outright ... but by no means have we given TERA a blank endorsement," Ankrum said, adding that before the NRC approves the audit plan, "we wanted to know what role Cresap foresaw for TERA."

"We don't want to exclude people who are the best qualified," he said. "But on the other hand, you don't want to put the fox in among the hens."

Members of the Government Accountability Project have protested plans to include TERA in the audit because of its work at the site.

Another request in the letter to Region III officials, which Ankrum said he believes is being detailed in the letter to Consumers, is an example of a "good job" of management appraisal. He said Torrey Pines Technology's appraisal of the Zimmer nuclear plant in 1983 was such an example.

Although Consumers has not disclosed its estimates for the cost of the audit, Ankrum said the Torrey Pines audit cost "around a million" dollars.

Ankrum also said he wanted to see more specific resumes on the personnel involved in appraising Consumers' management.

The management appraisal was, ordered by the NRC in response to continued construction mistakes at the Midland project.

For the warm weather it in the sold construction activity, inmeases or the site more visitors are expected to be truining the site Groups from various engineering accepts in the Segman Value are incurred driving most representatives, government official, and other power companys among on visits in the settler sound or are planning on visits in the next few months.

In addition Consumers Power's Speakers

rower's project as new community. I serned about the plant." Many of the members have stopped anding some of temp used in consided another, we the nuclear plant is payroli for the com-



GAL-0119

April 12. 1984

Dear Fellow Midland Workers:

Events in the last two weeks concerning the future of our work here at Midland have moved quickly and culminated in Tuesday's Consumers Power Company Board of Directors meeting, the annual meeting of our shareholders and a news conference yesterday. I would like to make a few comments on these events.

First, the Board of Directors reaffirmed Consumers Power Company's commitment to complete Midland Unit II. In addition, after a thorough review, the Board concurred in our completion schedule that calls for commercial operation in December, 1986, with fuel load occurring the previous July 1.

The shareholders at their meeting overwhelmingly supported Midland completion and by an 11-1 margin rejected a motion that would have halted construction for a year.

Secondly, the Company announced that the estimated cost to complete Unit II is \$3.95 billion. The status of Unit I continues to be deferred according to the project decoupling recommendations adopted last fall. Our customers' electric demands and Consumers Power's financial resources will ultimately determine the future plans for Unit I. It is the Company's intent to maintain the option of completing Unit I when appropriate.

Third, the Board of Directors reduced the quarterly common stock dividend to 35 cents a share.

The Board is very much aware that assembling the financial resources necessary to complete construction of the project will require concurrence in our completion plan by the Michigan Public Service Commission (MPSC) and the elected officials of the state. Discussions between the management of Consumers Power Company and representatives of the MPSC and the Michigan Attorney General's Office were specificall authorized to continue. As a result there will be continuing media attention and speculation until the questions external to the project are resolved.

What does all this mean to Midland project personnel?

Clearly, the management and the Board have expressed confidence in our efforts to complete Midland Unit II. Their conclusions are an endorsement of the completion schedule that drew upon the advice and input of so many at every level of this project.

It is also a significant responsibility that we all now assume. The current schedule conclusion and resulting cost was reached only after consulting with all segments of the project and ensuring each organization's plans had been fully integrated into the overall completion plan. We believe the plan is realistic and clearly charts our path to completion. The details of the plan, including the conservatism in the fuel load date, will soon be reflected in our detailed working schedules.

What are some of the reasons we can have confidence in our plan?

- 1. We have a construction completion program (CCF) approved by the Nuclear Regulatory Commission and we are working well in increasing the confidence of the NRC team in our ability to perform.
- The design is essentially complete, our procedures are in place and the training of employees is well along.
- 3. But most importantly, we have a competent, enthusiastic and committed team in place working at this jobsite.

In short, the conditions are right for the successful completion of the project.

However, the determination of Consumers Power Company to continue Midland construction bolstered by the willingness of our stockholders to sacrifice is not enough.

Our continuing performance and commitment to meeting all safety and quality requirement as well as accomplishing the work in accordance with the new schedule and cost forecast is the cornerstone of the corporate strategy. We asked for the chance to finish this major energy facility. We are being given that chance. We can do it.

James W Cook

Vice President

Consumers Power Company

mes W. Cook

DAILY REPORT RIII

DATE 04/17/84

FACILITY/LICENSEE

NOTIFICATION

ITEM OR EVENT

REGIONAL ACTION

OFFICE OF THE REGIONAL ADMINISTRATOR

MIDLAND

MR. A. B. DAVIS IS IN HO TO ATTEND A MEETING WITH MANAGEMENT REPRESENTATIVES OF CONSUMERS POWER COMPANY AND OTHER NRC STAFF MEMBERS TO DISCUSS MATTERS RELATING TO MIDLAND.

INFORMATION.

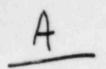
CLINTON

MESSRS. S. LEWIS. C. WEIL. AND R. KNOP WILL BE MEETING INFORMATION. WITH MS. BENASSI REGARDING THE FIRING OF EMPLOYEES AT CLINTON. THE MEETING WITH BE HELD AT MS. BENASSI'S OFFICE IN PEORIA. IL.

D. C. COOK

MESSRS. JAMES G. KEPPLER. R. STRASMA. J. GROBE AND J. KALKMAN WERE SERVED SUBPOENAS TO TESTIFY BEFORE GRAND JURY. GRAND RAPIDS. MICHIGAN CONCERNING D. C. COOK. APPENDIX R.

INFORMATION.



Present day utility audit programs do not adequately verify the validity of certification programs; here's why:

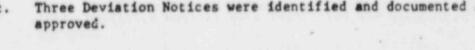
- Audits are neither comprehensive nor scheduled on the basis
 of the status and importance of the activities. Audits are
 usually performed on an annual basis, including followup on
 previous audit findings.
- Regularly scheduled audits are not supplemented by other audits when, after award of a contract sufficient time has elapsed for implementing the QA program and it is appropriate to determine that the organization is adequately performing the functions as defined in the QA program description, codes, standards, etc.
- Audit teams do not include personnel who are chosen because of special abilities, specialized technical training, or pertinent experience. Members are usually junior employees or are otherwise inept.
- 4. Audit teams are not prepared prior to initiation of the audit. Pertinent policies, procedures, standards, instructions, codes, or regulatory requirements are not reviewed by the auditors.
- Checklists or procedures are not used to ensure depth and continuity of audits.
- Selected elements of the QA program, e.g., Certificates of Conformance, are not audited to the depth necessary to determine whether or not that part of the program is being implemented effectively.

QA programs are formulated to comply with Appendix B and ASME Boiler and Pressure Vessel Code, Section III. By design, electrical equipment is often overlooked or neglected.

Review of QA Documentation

The inspector reviewed the documentation on a Velan valve identified as 2CC 9467C with manufacturer's serial number 77G688. The valve is installed in the Component Cooling System in the auxiliary building.

- CECo's Material and Equipment Receiving and Inspection Report (MRR) No. 10431 dated January 11, 1978, indicates the five 150 lb butt weld carbon steel gate valves were received onsite, with no visible shipping damage, and accepted on January 16, 1978.
- Westinghouse Electric Corporation (Westinghouse), supplied a b. Quality Release form (QR) No. 36909 dated December 6, 1977, which indicates that the valves were supplied by Velan and meet Westinghouse Specification G-678853, Revision 1 and Drawing No. 83901-R, Revision A. The QR stated that the following attributes had been reviewed and accepted.
 - (1) Material Certifications
 - (2) Heat Treat Records
 - (3) Penetrant and Magnetic Particle Tests Reports
 - (4) Ultrasonic Test Reports
 - (5) Pesign Analysis
 - (6) Westinghouse 688 Form
 - (7) Pressure Test Records
 - (8) Seat Tightness Test Records
 - (9) Welding Personnel Qualification Certifications
 - (10) NDE Personnel Qualification Certifications
 - (11) Code Form NPV-1-
 - (12) Visual Inspection
 - (13) Dimensional Inspections
 - (14) Cleanliness
 - (15) Painting
 - (16) Packing
 - Three Deviation Notices were identified and documented as approved.



-	
	QUALIFICATION OF CLASS 1E
	SYSTEM & INTERFACING COMPONENTS

40 minutes

B

SCOPE

DEFINITIONS DESTEN CONSIDERATIONS SAFETY RELATED SYSTEMS SAFETY RELATED COMPONENTS PROCEDURE FOR QUALIFICATION TESTS

CLASSIE - The safety classification of the electric equipment and systems that are essential to emergency reactor shutdown, containment isolation, reactor core cooling, and containment and reactor heat removal, or are otherwise essential in preventing significant release of radioactive material to the environment.

GDC 4 - Structures, systems and compenents important to safety shall be designed to accomodate
the effects of and to be compatible with the
environmental conditions associated with not
mal operation, maintenance, testing, and post
ulated accidents.

OTHER BASIS: 10 CER 50, 55 a (h) [IEEE 279]

Paragraphs 3 (8) and 4.4; 10 CERSO, Appendix A,

GDG 2 and 3; Appendix B, Criteria III, VII and XI.

INFORMATION: SAR sections 3.1, 3.2, 3.10, 3.11 and 9.5.1.2; IEEE 323-1974.

ACCIDENTS

Fire Flood Earthquake LOCA

HELB

ENVIRONMENTS (Normal & Accident)

Temperature Pressure

Relative Humidity

Atmosphere

Chemicals

Radiation

Aging

Degraded grid voltage

DURATION

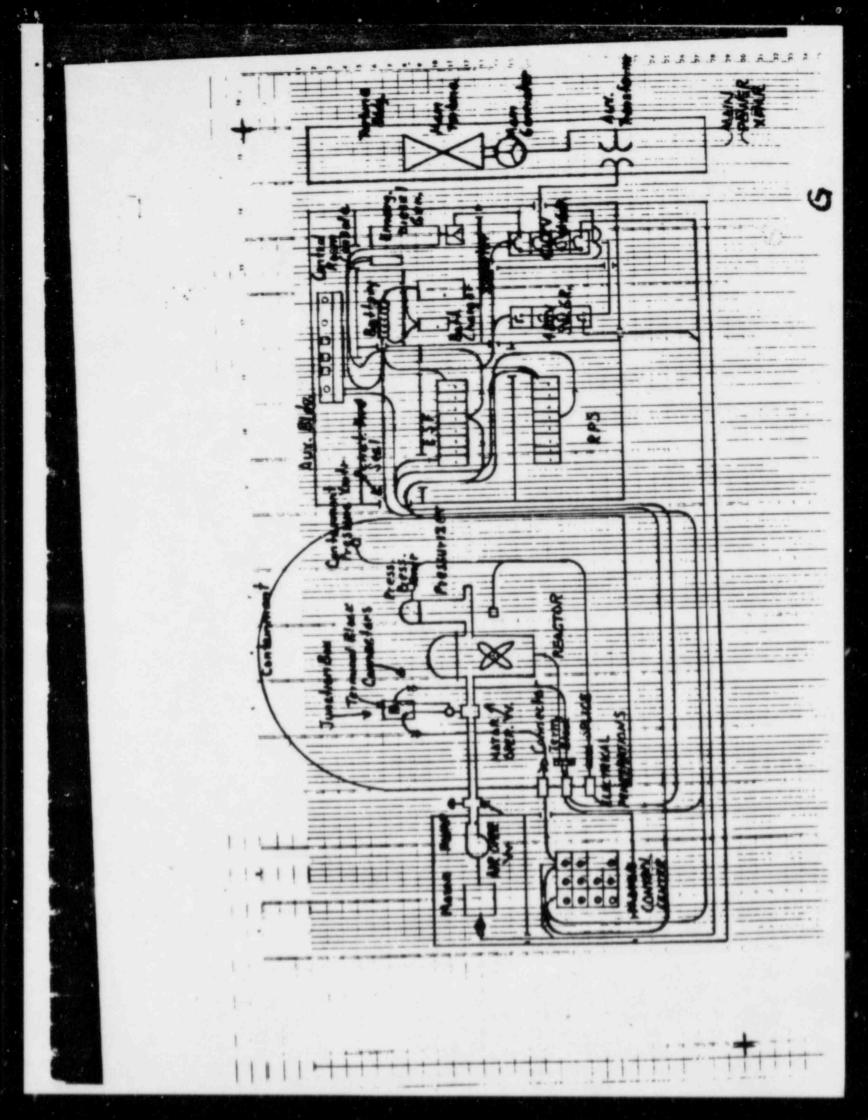
Continuous Short term Intermittent

PLANT AREA LOCATION

Inside Containment Auxiliary Building Control Area Turbine Building

Outdoors

E



SYSTEMS:
Electric Power

medium voltage (>600v)

low voltage (<600v)

AC-DC

Reactor Protection

Engineered Safety Features

high pressure injection

low pressure injection

core flooding

reactor building clean-up

Isolation

spray

component cooling

G#

COMPONENTS

Instruments

sensors, transmitters

Motors for

Pumps, valves, HVAC

Cables

Power, control, instrumentation

Terminations

Penetrations, connectors, terminal blocks, splices

Ancilliary

Switches, Junction boxes, tapes, solenoids, epoxies lubricants, relays, electronic modules, coatings, gaskets seals, grommets, o'rings

Power

Diesel generator, AC-DC switchgear, transformers, batteries, chargers, inverters

Other

switchboards, control panels, instrument racks, supports - raceway, instrument sensing lines, race way, fire stops, radiation shields, flood control barriers

Show slides & Examples

G&H superimposed

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SECTIONIT

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PROCEDURE: REFER TO SECTION III

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* See IEEE 603- Carteria to so fety systems for muchal nower generating stations

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Substitute how of Nuclear Pawer Plant
Substy Related System & Interfacing ans I Reg. Goode 1.70 sections 3.4 3.0, 3.11 and 9.51, 2; TEEF 323-1974; AVSI NYES scarling safety fortones such as contaminant isolation, tone spiring, containing et. Was of this This procedure to based on the regurements set forth ad follows: noter so, 85 a Chillania o IBEE 279) Paras 368) and 4.43 rockesso, Non A-GIOC & 3, and 4; rockessy My & Chiteria HI III, a indicate the status of systems which thip the reacher and in take or moon quality excepted, for use intuction powered execting generating 5th thouse that as that, the design, manufacture, test and/or anelysis methods, principles, productives ett., door to to notementation of industry CA/OC programs. It is thousand the intend of this proceeding to "test" industrial poolification programs. Agual fice than program will be "xister" by It is a find a mental promise of wet is inspection program to now principally on the Choosing several comparate and playing them against a particular program. These procedure sets forth the after butes to be verified by It man from personnel ovocedure andled or went trathou at vendor locations and for now last of last sites regressions and specific compensate can be guelified SECTION III

* Vendor- For was how Majeer Steam System Synthes (18535); Archita HE Syntes (05); Mand Kachurer

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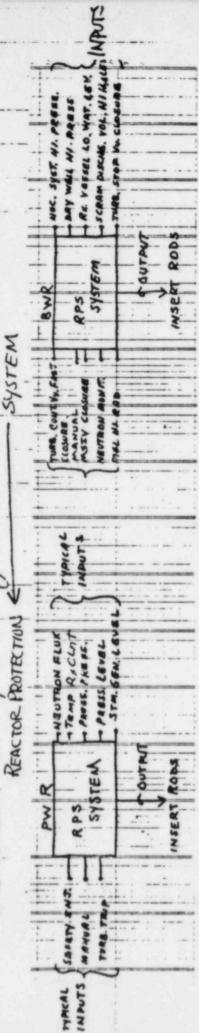
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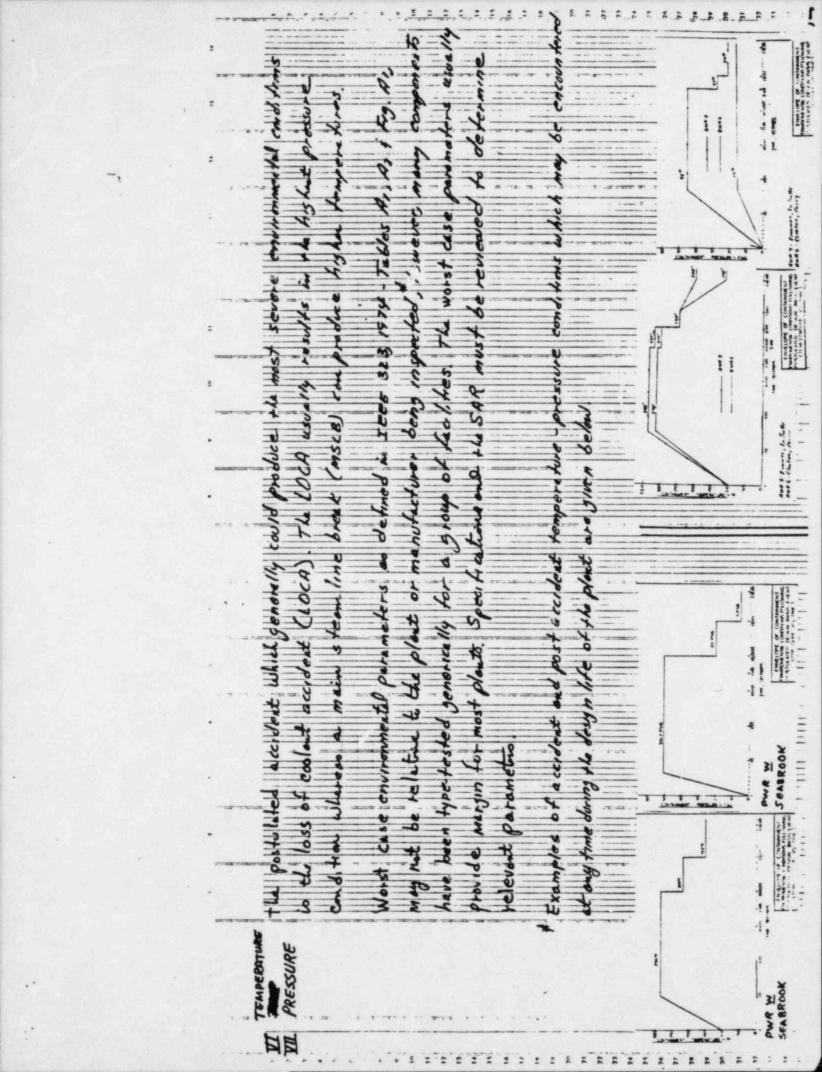
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SEISMIC CLASS I- Structures, components, and metrumentation vital to the safe shutdown et the reactor and whose tailure miste cause or mercase the severity of a LOCA or etherwise resent in an concentralled release of excessine amounts of redeastruity.

OPERATING BASIS EARTHOUAKE (OBE) The earthroate which could reasonably be expected to affect the plant site during the operating life of the plant. Seismic Classs gripment will remain furthmod.

SAFE SHUTDOWN EARTHQUAKE (SSE) The carthquake which is based upon on evaluation of the minkingual cast desirates of the minking of selections of solding the regional and local social solding one specific chareforstes of local substitute material. It produces the maximum vibratory ground motions.

All plant locations are different; each floor level within a plant to different. Tosts are performed at accelerations (95) over a given frequencies. (0-35hz; up to 10g) [see Fig. 1]

Earliquides us characteratically low frequency, long dapplecement earth-movements with bods horizontal such motion is often amplified at ceram frequences due to the exposus of the real-cut building and to the interaction of the building and the soil on which it is built. This amplification phenomenon can result in horizontal accelerations of

several times the force of gravity.

If the expected fadure made of safety fedaced equipment is principly in the expected fadure made of sasting its appropriate method of assering its surrevability theorem, if the expected fadure mode is principled for them. a test is required. Under certain conditions, such as when the equipment is too large to be tested, a combination of analyses and testing may be appropriate Continuous Sins Test

A continuous unasoudal motion at a single frequency with a peak acceleration equal to at least the maximum qualification acceleration trapplied to the test attack. The peak input acceleration and the time of sacitation is adjusted to that the analysi of the lest response spectrum (TRS) equals or envelopes the required response spectrum (RRS). Sine Beat Test

A continuous sinusoid of one frequency is supplied an love of period virusoid of a lover frequency is applied to the test article. The number of oxcillations and peak emplitude of the best for each test frequency is chosen to most nearly produce test response spectrum (TRS) which equals or exceeds the required response spectrum (RRS)

A single frequency decaying unusoud with a maximum amplitude equal to or greater than the peak test acceleration is applied to the test article. The peak input acceleration and the decay rate is adjusted to that the test response specifum (TRS) envelopes the required response specific (RRS). Decaying Sine Test

Iwne History Test

been synthesized to senulate the probable input in applied to the test article If a time hairory is required to meet a specific R.E.S. then the table motion is analyzed to insuere that the TRS envelopes the A pre-recorded time history which has

Random Motion Test

shtained from this test

The test article is subjected to a random motion consisting typically of frequencies in the range of 0.5 to 33 Mz. The amplitude is controlled in 1/3 octave adjusted to that the analysis of the input frequency bandwidths and is iteratively motion envelopes the required response

high peak, a sine beat is superimposed on a random excitation. This permits the anveloping of the RKS without substantial owertering at frequencies other than at the peak frequency. Mith Sine Best Test

Theel an RRS with a moderately

The test article is subjected to a complex motion generated by summing a group of decaying sinusods with a decay frequencies are instanted to that their peaks occur at approximately the same

time They are spaced 1/3 oxtave apart and have individual amplitude controls. The signal is iteratively adjusted until the analysis of the input signal envelopes the required response spectrum. The test is several times with a pause between excitation to avoid superposition Low Level Sine Sweep Test of the response motions

While not sufficient for a qualification test, a low level sine sweep is often useful as a design tool or for obtaining data to support or verify a mathematical analysis. The test item is excited to a very low acceleration levels are recorded at points of interest Resonance frequencies, transfer functions, and dansping factors can be level, typically 0.2 g, and continuous

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- be sufficient to specifically identify the purchased material or equipment, such as by the purchase order number.
- e identify the specific procurement requirements met by the purchased material or equipment, such as codes, standards, and other specifications. This may be accomplished by including a list of the specific requirements or by providing, onsite, a copy of the purchase order and the procurement specifications or drawings, together with a suitable conformance statement. The procurement requirements identified should include any approved changes, waivers, or deviations applicable to the subject material or equipment.
- identify any procurement requirements that have not been met, together with an explanation and the means for resolving the nonconformances.
- be attested to by a person who is responsible for this QA function and whose function and position are described in the purchaser's or supplier's QA program.
- have the certification system, including the procedures to be followed in filling out a certificate and the administrative procedures for review and approval of the certificates, described in the purchaser's or supplier's QA program.
- have means provided to verify the validity of certificates
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. the audits or other means of verification such as vendor inspection, should be truely comprehense enough to verify the Vendor's qualification method (See Vendor Qual hera the the Stepp A) C. Audits are performed in accordance with worth procedures and checklists by gratified person including technical specialisto experienced or framed in the activities being auditul. The sco complexity and special nature of the audit should be Considered in the selection of quelit personnel 2) Addits are performed: party enough to assure effective & QA during dasga, procurement on testing activities; after time has elapsed in order to verify implementation of to A/OC program vato products now for the at the inter 3) Deficiencies identified are to llowed up in a defined time from (time 14)

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QUALIFICATION METHOD

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purchased material or equipment, such as codes, standards, and other specifications. This may be accomplished by including a list of the specific requirements or by providing, onsite, a copy of the purchase order and the procurement specifications or drawings, together with a suitable conformance statement. The procurement requirements identified should include any approved changes, waivers, or deviations applicable to the subject material or equipment.

 identify any procurement requirements that have not been met, together with an explanation and the means for resolving the nonconformances.

- be attested to by a person who is responsible for this QA function and whose function and position are described in the purchaser's or supplier's QA program.
- have the certification system, including the procedures to be followed in filling out a certificate and the administrative procedures for review and approval of the certificates, described in the purchaser's or supplier's QA program.
- have means provided to verify the validity of certificates
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APPENDIX 3B

COMPLIANCE OF MIDLAND PLANT UNITS 1 AND 2

WITH THE NRC REGULATIONS OF

10 CFR PARTS 20, 50, AND 100

Regulation (10 CFR) (Effective Date)	Compliance
20.1(a) (8/20/79)	This regulation states the general purpose for which the Part 20 regulations are established and does not impose any independent obligations on Consumers Power Company.
20.1(b) (8/20/79)	This regulation describes the overall purpose of the Part 20 regulations. It does not impose any independent obligations on Consumers Power Company.
20.1(c) (8/20/79)	Conformance to the as low as is reasonably achievable (ALARA) principle stated in this regulation is ensured by the implementation of Consumers Power Company policies and appropriate technical specifications and procedures. Chapters 11 and 12 describe the specific equipment and design features used in this effort.
20.2 (12/1/81)	This regulation establishes the applicability of the Part 20 regulations and does not impose any independent obligations on Consumers Power Company.
20.3 (12/1/81)	This regulation defines words and phrases used in Part 20 and does not impose any independent obligations on Consumers Power Company.
20.4 (1/1/61)	This regulation defines the Units of Radiation Dose and does not impose any independent obligations on Consumers Power Company.
20.5 (1/29/76)	This regulation defines the Units of Radioactivity and does not impose any independent obligations on Consumers Power Company.
20.6 (2/28/57)	This regulation governs the interpretation of regulations by the NRC and does not

Regulation (10 CFR) (Effective Date)	Compliance
	impose any independent obligations on Consumers Power Company.
20.7 (3/3/75)	This regulation gives the address of the NRC and does not impose any independent obligations on Consumers Power Company.
20.101 (8/20/79)	The radiation dose limits specified in this regulation are complied with through the implementation of and adherence to Midland administrative policies and controls and appropriate procedures developed for this purpose.
20.102 (8/20/79)	When required by this regulation, the accumulated dose for any individual is determined by the use of Form NRC-4 or equivalent. Appropriate Midland procedures and administrative policies control this process.
20.103(a) (7/7/78)	Compliance with this regulation is ensured through the implementation of appropriate Midland procedures relating to air sampling for radioactive materials and bioassay of individuals for internal contamination. Midland administrative policies and controls provide adequate safety margins to protect individuals against intake of radioactive materials. The systems and equipment described in Chapters 11 and 12 provide the capability to minimize these hazards.
20.103(b) (7/7/78)	Appropriate process and engineering controls and equipment, as described in Chapters 11 and 12, are installed and operated to maintain levels of airborne radioactivity as low as is reasonably achievable. When necessary, as determined by Midland procedures, additional precautionary measures are used to limit the potential for intake of radioactive materials.
20.103(c) (7/7/78)	The Midland respiratory protection program will comply with this regulation and follow the guidance of Regulatory Guide 8.15. Further information is provided in Section 12.5.

Regulation (10 CFR) (Effective Date)	Compliance
20.103(d) (7/7/78)	This regulation describes further restrictions which the Commission may impose on licensees. It does not impose any independent obligations on Consumers Power Company.
20.103(e) (7/7/78)	Consumers Power Company will notify the appropriate NRC Regional office at least 30 days before the first use of respiratory protective equipment for radiological purposes.
20.103(f) (7/7/78)	This regulation does not apply to the Midland plant because no respiratory protection program was in effect before December 2, 1976.
20.104 (12/29/76)	Conformance with this regulation is ensured by appropriate Consumers Power Company policies regarding employment of individuals under 18 and the Midland Plant Procedure restricting these individuals' access to restricted areas.
20.105(a) (6/23/81)	Proposed limits for permissible levels of radiation in unrestricted areas will be included in Midland technical specifications.
20.105(b) (6/23/81)	Chapters 11 and 12 provide information on radiation levels. Plant procedures will ensure that radiation levels in unrestricted areas are within prescribed limits.
20.105(c) (6/23/81)	Implementation of 40 CFR 190 requirements will be included in Midland technical specifications.
20.106(a) (6/23/81)	Conformance with the limits specified in this regulation is ensured through the implementation of Midland procedures and applicable technical specifications which provide adequate sampling and analyses, or monitoring of radioactive materials in effluents before and during their release. The level of radioactivity in station effluents is minimized to the evtent practicable by equipment designed for this purpose, as described in Chapter 11.

Regulation (10 CFR) (Effective Date)	Compliance
20.106(b) 20.106(c) (6/23/81)	Consumers Power Company has not and does not intend to include in any license or amendment applications proposed limits higher than those specified in Paragraph 20.106(a), as provided for in these regulations.
20.106(d) (6/23/81)	Appropriate allowances for dilution and dispersion of radioactive effluents are made in conformance with this regulation, and are described in detail in Chapter 11 and in appropriate reports required by the technical specifications.
20.106(e) (6/23/81)	Midland technical specifications will include all limitations on release of radioactive materials.
20.106(f) (6/23/81)	This regulation states that the provisions of Section 20.106 do not apply to disposal of radioactive material into sanitary sewerage systems. It does not impose any independent obligations on Consumers Power Company
20.106(g) (6/23/81)	Implementation of 40 CFR 190 requirements will be included in Midland technical specifications
20.107 (1/1/61)	This regulation clarifies that the Part 20 regulations are not intended to apply to the intentional exposure of patients to radiation for the purpose of medical diagnosis or therapy. It does not impose any independent obligations on Consumers Power Company.
20.108 (1/1/61)	Necessary bioassay equipment and procedures will be used at Midland to determine exposure of individuals to concentrations of radioactive materials. Appropriate procedures and administrative policies implement this requirement.
20.201 (2/28/57)	The surveys required by this regulation will be performed at adequate frequencies and will contain enough detail to be consistent with the radiation hazard being evaluated. Applicable Midland procedures will require these surveys and provide for their

Regulation (10 CFR) (Effective Date)	Compliance
	documentation in such a manner as to ensure compliance with Part 20 regulations.
20.202(a) (1/1/61)	Applicable Midland procedures set forth policies and practices which ensure that all individuals are supplied with, and required to use, appropriate personnel monitoring equipment.
20.252(b) (1/1/61)	This regulation provides some definitions of phrases used in this Part. It does not impose any independent obligations on Consumers Power Company.
20.203(a) (6/23/78)	The conventional radiation caution colors and "three-bladed design" radiation symbol prescribed by this regulation are used and will continue to be used by Consumers Power Company.
20.203(b) (6/23/78)	The posting requirement for radiation areas prescribed by this regulation is used and will continue to be used by Consumers Power Company.
20.203(c) (6/23/78)	The requirements of this regulation for high radiation areas will be conformed to by the implementation of Midland technical specifications and appropriate procedures. The controls and other protective measures set forth in the regulation are maintained under the surveillance of plant personnel.
	Midland Technical Specification 16.6.12 based on NUREG 0103, provides alternate access control methods to be applied "in lieu of the 'control device' or 'alarm signal' required by Paragraph 20.203(c)(2)," which will prevent unauthorized entry into a high radiation area.
20.203(d) (6/23/78)	Each airborne radioactivity area, as defined in this regulation, is required to be posted by provisions of appropriate Midland procedures. These procedures also provide for the surveillance requirements necessary to determine airborne radioactivity levels.
20.203(e) (6/23/78)	The area and room posting requirements set forth in this regulation pertaining to

Regulation (10 CFR) (Effective Date)	Compliance
	radioactive materials are complied with through the implementation of appropriate Midland procedures.
20.203(f) (6/23/78)	The container labeling requirements set forth in this regulation are complied with through the implementation of appropriate Midland procedures.
20.204 (4/24/70)	The posting requirement exceptions described in this regulation will be used where appropriate and necessary at Midland. Adequate controls are provided within the Midland procedures to ensure safe and proper application of these exceptions.
20.205 (4/19/76)	All requirements of this regulation pertaining to procedures for picking up, receiving, and opening packages of radioactive materials are implemented by appropriate Midland procedures. These procedures also provide for the necessary documentation to ensure an auditable record of compliance.
20.206 (9/17/73)	The requirements of Section 19.12 referred to by this regulation are satisfied by the radiation protection training program. Appropriate Midland procedures set forth requirements for all radiation workers to receive this instruction on a periodic basis.
20.207 (6/25/75)	The storage and control requirements for licensed materials in unrestricted areas are conformed to and documented through the implementation of Midland procedures.
20.301 (12/1/81)	The general requirements for waste disposal set forth in this regulation are complied with through Midland procedures and the technical specifications. Chapter 11 describes the solid waste disposal system installed at Midland.
20.302 (1/3/72)	No such application for proposed disposal procedures, as described in this regulation, has been made or is presently contemplated for the Midland plant.

Regulation (10 CFR) (Effective Date)	Compliance
20.303 (3/11/81)	No plans for waste disposal by release into sanitary sewerage systems, as provided for in this regulation, are presently contemplated for the Midland plant.
20.305 (3/11/81)	Specific authorization, as described in this regulation, is not currently being sought for the Midland plant for treatment or disposal of wastes by incineration. Consumers Power Company will comply with this regulation if these plans change.
20.306 (3/11/81)	Consumers Power Company has no current plans to dispose of licensed material from the Midland plant by any means other than described in the response to Section 20.301
20.401 (1/28/81)	All requirements of this regulation will be complied with through the implementation of appropriate Midland technical specifications and procedures pertaining to records of surveys, radiation monitoring and waste disposal. The retention periods specified for such records are also provided for in these technical specifications and procedures.
20.402 (9/1/77)	Appropriate procedures will establish an inventory and control program to ensure accountability for all licensed radioactive materials. Reports of theft or loss of licensed material are required by reference to the regulations of 10 CFR in Midland technical specifications.
20.403 (2/29/80)	Notifications of incidents, as described in this regulation, will be ensured by the requirements of Midland technical specifications and appropriate plant procedures, which also provide for the necessary assessments to determine the occurrence of such incidents.
20.405 (6/23/81)	Reports of overexposures to radiation and the occurrence of excessive levels and concentrations, as required by this regulation, will be provided for by reference in Midland technical specifications and in appropriate procedures.

Regulation (10 CFR) (Effective Date)	Compliance
20.407 (12/13/78)	The personnel monitoring report required by this regulation is provided for by appropriate Midland procedures.
20.408 (12/1/81)	The report of radiation exposure required by this regulation upon termination of an individual's employment or work assignment is generated through the provisions of appropriate Midland procedures.
20.409 (9/17/73)	The notification and reporting requirements of this regulation, and those referred to by it, are satisfied by the provisions of appropriate Midland procedures.
20.501 (2/28/57)	This regulation provides for the granting of exemptions from Part 20 regulations, provided such exemptions are authorized by law and will not result in undue hazard to life or property. It does not impose any independent obligations on Consumers Power Company.
20.502 (2/28/57)	This regulation describes the means by which the Commission may impose requirements upon any licensee in addition to the regulations of Part 20. It does not impose any independent obligations on Consumers Power Company.
20.601 (3/3/75)	This regulation describes the remedies which the Commission may obtain to enforce its regulations, and sets forth those penalties or punishments which may be imposed for violations of its rules. It does not impose any independent obligations on Consumers Power Company.
50.1 (3/3/75)	This regulation states the purpose of the Part 50 regulations and does not impose any independent obligations on Consumers Power Company.
50.2 (3/24/80)	This regulation defines various terms and does not impose any independent obligations on Consumers Power Company.
50.3 (2/18/56)	This regulation governs the interpretation of the regulations by the NRC and does not

Regulation (10 CFR) (Effective Date)	Compliance
	impose any independent obligations on Consumers Power Company.
50.4 (3/3/75)	This regulation gives the address of the NRC and does not impose any independent obligations on Consumers Power Company.
50.10 (5/3/78)	This regulation specifies the types of activities that may not be undertaken without a license from the NRC. Consumers Power Company does not propose to conduct any such activities at Midland without an NRC license.
50.11 (3/3/75)	This regulation defines exceptions and exemptions from licensing requirements. It does not impose any independent obligations on Consumers Power Company.
50.12 (3/3/75)	This regulation provides for the granting of exemptions from Part 50 regulations, provided such exemptions are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest. It does not impose any independent obligations on Consumers Power Company.
50.13 (10/26/67)	This regulation states that a license applicant need not design against acts of war. It does not impose any independent obligations on Consumers Power Company.
50.20 (2/18/56) 50.21 (5/3/78) 50.22 (5/3/78) 50.23 (2/18/56)	These regulations describe the types of licenses the NRC issues. They do not address the substantive requirements that an applicant must satisfy to qualify for such licenses and do not impose any independent obligations on Consumers Power Company.
50.30 (5/1/78)	This regulation sets down procedural requirements for the filing of license applications, such as the number of copies of the application that must be provided to the NRC. Consumers Power Company has complied with the procedural requirements when filing its Midland license application and the amendments thereto. In particular, Paragraph 50.30(f) requires that a license

Regulation (10 CFR) (Effective Date)	Compliance
	application be accompanied by any environmental report required under Part 51, and Consumers Power Company has submitted an environmental report covering Midland.
50.31 (2/18/56) 50.32 (2/18/56)	These regulations permit more efficient organization of the license application and do not impose any independent obligations on Consumers Power Company.
50.33 (11/3/80)	This regulation requires the license application to contain certain general information. This information has been provided in the General Information volume of the Midland operating license application.
50.33a (10/22/79)	This regulation requires applicants for construction permits to submit information required for antitrust review. The antitrust review required by the Atomic Energy Act of 1954, as amended, was performed at the construction permit stage. Further information on the antitrust review is found in the response to Open Item ATF-1 in the Addendum to the Responses to NRC Questions volumes.
50.34(a) (2/4/81)	This regulation governs the contents of the Preliminary Safety Analysis Report (PSAR) and is relevant to the construction permit stage rather than the operating license stage. The applicable information was supplied at the construction permit stage.
50.34(b) (2/4/81)	A final safety analysis report (FSAR) has been prepared and submitted, which addresses in the chapters indicated the information required:
	1. Site evaluation factors - Chapter 2
	 Structures, systems, and components - Chapters 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 15
	 Radioactive effluents and radiation protection - Chapters 11 and 12

Regulation	(10	CFR)
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Compliance

- Design and performance evaluation emergency core cooling system (ECCS) performance is discussed and shown to meet the requirements of Section 50.46, in Chapters 6 and 15.
- Results of research programs -Chapter 1
- i) Organizational structure Chapter
 13
 - ii) Managerial and administrative controls Chapters 13 and 17. Chapter 17 discusses compliance with the quality assurance requirements of Appendix B.
 - iii) Plans for preoperational testing and initial operations -Chapter 14
 - iv) Plans for conduct of normal operations Chapters 13 and 17. Surveillance and periodic testing is specified in the technical specifications.
 - v) Plans for coping with emergencies - Site Emergency Plan (Chapter 13)
 - vi) Technical specifications prepared in conjunction with the
 staff (Chapter 16)
 - vii) Not applicable, because the operating license application was filed before February 5, 1979
- Technical qualifications Chapter 13
- Operator requalification program -Chapter 13

50.34(c) (2/4/81)

A physical security plan has been prepared and submitted to the NRC, and will be implemented for the Midland plant.

Regulation (10 CFR) (Effective Date)	Compliance
50.34(d) (2/4/81)	A safeguards contingency plan has been prepared and submitted to the NRC, and will be implemented for the Midland plant.
50.34a (1/19/76)	As required by this regulation, a description of the equipment and procedures for the control of gaseous and liquid effluents and for the maintenance and use of equipment installed in radioactive waste systems, and an estimate of expected releases of radio-nuclides is provided in Sections 11.2 and 11.3.
50.35 (4/30/70)	This regulation is relevant to the construction permit stage rather than the operating license stage. Applicable requirements were complied with at the construction permit stage.
50.36 (8/5/74)	Midland technical specifications are being prepared and will be implemented, including items in each of the following specified categories: (1) safety limits and limiting safety settings, (2) limiting conditions for operation, (3) surveillance requirements, (4) design features, and (5) administrative controls.
50.36a (4/19/76)	Midland technical specifications include specifications that require compliance with Section 50.34a (releases as low as is reasonably achievable) and that ensure that concentrations of radioactive effluents released to unrestricted areas are within the limits specified in Section 20.106. The reporting requirements of Paragraph 50.36a(a)(2) are also included in these specifications.
50.37 (2/18/56)	This regulation requires the applicant to agree to limit access to Restricted Data. This requirement was satisfied at the time of application for the Midland Construction Permit as discussed therein.
50.38 (5/3/78)	This regulation prohibits the NRC from issuing a license to foreign-controlled entities. Consumers Power Company's statement that it is not owned, controlled, or dominated by an alien, foreign

Regulation (10 CFR) (Effective Date)	Compliance
	corporation, or foreign government is in the operating license application for the Midland Plant Units 1 and 2 in the General Information volume.
50.39 (2/18/56)	This regulation provides that applications and related documents may be made available for public inspection. This does not impose any direct obligations on Consumers Power Company.
50.40 (8/19/74)	This regulation provides considerations to guide the Commission in granting licenses and does not impose any independent obligations on Consumers Power Company.
50.41 (12/29/70)	This regulation applies to Class 104 licensees, such as those for devices used in medical therapy. Consumers Power Company has not applied for a Class 104 license for the Midland plant, therefore Section 50.41 is not applicable.
50.42 (3/3/75)	Section 50.42 provides additional considerations to guide the Commission in issuing Class 103 licenses and does not impose any independent obligations on Consumers Power Company.
50.43 (12/29/70)	This regulation imposes certain duties on the NRC and addresses the applicability of the Federal Power Act and the right of government agencies to obtain NRC licenses. It does not impose any direct obligations on Consumers Power Company.
50.44 (1/4/82)	The Midland plant combustible gas control system is described in Subsection 6.2.5. The system is designed to maintain the hydrogen concentration in containment at a safe level following a LOCA, without purging the containment atmosphere as a primary means for controlling combustible gases, as specified in Paragraph 50.44(e). The system consists of a hydrogen monitoring subsystem, a hydrogen recombiner subsystem, and a hydrogen purge subsystem (the hydrogen purge subsystem is used only as a backup system to the hydrogen recombiner subsystem). Compliance with Paragraph 50.44(c)(3)(iii)

Regulation (10 CFR) (Effective Date)	Compliance
	on system vents is achieved by installation of reactor coolant system hot leg vents and a pressurizer vent. However, no vent is installed on the reactor vessel head because the accumulation of noncondensible gases in the head region would not cause loss-of-core cooling or loss of function of the reactor coolant system. The requirements of Section 50.44 are satisfied.
50.45 (2/18/56)	This regulation provides standards for construction permits rather than operating licenses and therefore does not impose any independent obligations on Consumers Power Company
50.46 (3/3/75)	Section 6.3 and Subsection 15.5.1 describe the ECCS and the methods used to analyze ECCS performance following a postulated LOCA.
50.47 (11/3/80)	This regulation sets forth the standards for emergency plans. Compliance with this regulation is being achieved by the submission of the Midland Site Emergency Plan, the emergency plans for the three counties lying within the 10-mile Emergency Planning Zone, and the State of Michigan Emergency Plan.
50.48 (2/17/81)	This regulation sets forth the standards for fire protection plans and features. The Midland Fire Prevention and Protection Program complies with the requirements of this regulation as discussed in Subsection 9.5.1 and Appendix 9A. Refer also to the discussion for Appendix R to Part 50 contained herein.
50.50 (2/18/56)	This regulation provides that the NRC will issue a license upon determining that the application meets the standards and requirements of the Atomic Energy Act and the regulations and that the necessary notifications to other agencies or bodies have been duly made. It does not impose any direct obligations on Consumers Power Company.

Regulation (10 CFR) (Effective Date)	Compliance
50.51 (2/18/56)	This regulation specifies the maximum duration of licenses and does not impose any independent obligations on Consumers Power Company.
50.52 (2/18/56)	This regulation provides for the combining in a single license of a number of activities. It does not impose any independent obligation on Consumers Power Company.
50.53 (5/3/78)	This regulation provides that licenses are not to be issued for activities that are not under or within the jurisdiction of the United States. The operation of the Midland plant will be within the United States and subject to the jurisdiction of the United States.
50.54 (5/29/81)	This regulation specifies conditions that are incorporated in every license issued and does not impose any independent obligations on Consumers Power Company.
50.55 (8/29/77)	This regulation addresses conditions of construction permits. Applicable portions were complied with at the construction permit stage.
50.55a(a) (5/4/81)	Structures, systems, and components for the Midland plant are designed, fabricated, constructed, tested, and inspected to quality standards commensurate with their importance.
50.55a(b) (5/4/81)	This regulation provides the date of the current approved Edition and Addenda of Section III and XI of the ASME Boiler and Pressure Vessel (B&PV) Code.
50.55a(c) (5/4/81)	Design and fabrication of the reactor vessel was carried out in accordance with ASME B&PV Code Section III. Further information demonstrating compliance with this regulation is provided in Section 5.2.
50.55a(d) (5/4/81)	Reactor coolant system piping meets the requirements of ANSI B31.7. Further information demonstrating compliance with this regulation is provided in Section 5.2.

Regulation (10 CFR) (Effective Date)	Compliance
50.55a(e) (5/4/31)	Reactor coolant pumps meet the requirements of ASME B&PV Code Section III. Further information demonstrating compliance with this regulation is provided in Section 5.2.
50.55a(f) (5/4/81)	The valves in the reactor coolant system pressure boundary were designed and fabricated in accordance with the requirements of ASME B&PV Code Section III. Further information demonstrating compliance with this regulation is provided in Section 5.2.
50.55a(g) (5/4/81)	Inservice inspection (ISI) requirements are delineated in this part and are specified in Midland technical specifications, Subsection 16.4.0.5. As permitted by this part and the technical specifications, certain exemptions have been requested and granted for the ISI of various systems and the inservice testing of various pumps and valves.
50.55a(h) (5/4/81)	As discussed in Chapter 7, the protection systems meet IEEE Std 279-1971.
50.55a(i) (5/4/81)	Fracture toughness requirements are set forth in Appendixes G and H of Part 50. Technical specifications require the use of reactor vessel material irradiation surveillance specimens and updating of the heatup and cooldown curves given in the technical specifications. Further information is given in Chapter 5 concerning the irradiation surveillance program. Exemptions to the requirements of Appendixes G and H of Part 50 are discussed in the responses to Appendixes G and H.
50.55a(j) (5/4/81)	This regulation applies to power reactors for which a notice of hearing on an application for a provisional construction permit or construction permit had been published on or before December 31, 1970. Such notice was published for the Midland plant before this date. Accordingly, the provisions of Section 50.55a, Paragraphs (c)(1), (d)(1), (e)(1), and (f)(1) apply to Midland, rather than

Regulation (10 CFR) (Effective Date)	Compliance
	Paragraphs $(c)(2)$, $(d)(2)$, $(e)(2)$, and $(f)(2)$, respectively.
50.55e (Proposed)	This regulation will apply to fuel reprocessing plants when it is adopted, and is therefore not applicable to the Midland plant.
50.56 (2/18/56)	This regulation provides that the Commission will, in the absence of good cause shown to the contrary, issue an operating license upon completion of the construction of a facility in compliance with the terms and conditions of the construction permit. This does not impose any independent obligations on Consumers Power Company.
50.57(a) (3/3/75)	This regulation requires the Commission to make certain findings before issuance of an operating license and does not impose any independent obligations on Consumers Power Company.
50.57(b) (3/3/75)	The license, as issued, will contain appropriate conditions to ensure that items of construction or modification are completed on a schedule acceptable to the Commission. Consumers Power Company will comply with these conditions if they are included in the license for the Midland plant.
50.57(c) (3/3/75)	This regulation allows an applicant to make a written motion for a license authorizing low-power testing and further operations short of full power. Consumers Power Company will comply with this regulation if such a request is initiated for the Midland plant.
50.58 (4/22/74)	This regulation provides for the review and report of the ACRS and does not impose any independent obligations on Consumers Power Company.
50.59 (4/18/77)	This regulation provides for the licensing of certain changes, tests, and experiments at a licensed facility. Compliance will be effected by the technical specifications and

(Effective Date)	Compliance
1	procedures that provide implementation of this regulation.
50.70 (9/17/79)	The Commission has assigned resident inspectors to the Midland plant. Consumers Power Company has provided office space and permits access to the station to NRC inspectors in accordance with the requirements of this section.
50.71 (7/22/80)	Records are and will be maintained in accordance with the requirements of Paragraphs (a) through (e) of this regulation and the license. Paragraph (e) requires that the FSAR be updated within 24 months of the date of issuance of the operating license, and annually thereafter. Such updates will be submitted to the NRC.
50.72 (2/29/80)	The NRC will be notified of significant events in accordance with the requirements of this regulation.
50.78 (12/24/80)	Consumers Power Company will submit installation information and permit verification to the International Atomic Energy Agency, if requested by the Commission for the Midland plant.
50.80 (3/11/73)	This regulation provides that licenses may not be transferred without NRC consent. No application for transfer of a license is involved in the Midland proceeding.
50.81 (3/9/67)	This regulation permits the creation of mortgages, pledges, and liens on licensed facilities, subject to certain provisions. It also specifies the rights of creditors with respect to licensed facilities. The rights of all creditors of Consumers Power Company having interests in the Midland plantare subject to the terms of this section.
50.82 (2/21/67)	This regulation provides for the termination of licenses. It does not apply to Midland because Consumers Power Company has not requested the termination of a license.
50.90 (2/18/56)	This regulation governs applications for amendments to licenses. Future requests for

Pegulation (10 CFR) (Effective Date)	Compliance
N	license amendments will be made in accordance with these requirements.
50.91 (4/22/74)	This regulation provides guidance to the NRC in issuing license amendments and does not impose any independent obligations on Consumers Power Company.
50.100 (2/18/56) 50.101 (3/3/75) 50.102 (3/3/75) 50.103 (3/3/75)	These regulations govern the revocation, suspension, and modification of licenses by the Commission under unusual circumstances and do not impose any independent obligations on Consumers Power Company.
50.109 (4/30/70)	This regulation specifies the conditions under which the NRC may require the backfitting of a facility. This regulation does not impose any independent obligations on Consumers Power Company unless the NRC proposes a backfitting requirement in compliance with the terms hereof.
50.110 (3/3/75)	This regulation governs enforcement in court of the Atomic Energy Act, the Energy Reorganization Act of 1974, and the NRC regulations and orders. No enforcement action under this section is pending in the Midland proceeding.
Appendix A (11/27/78)	Conformance with the general design criteria for the Midland plant is discussed in detail in Section 3.1. Additional detail is provided throughout the FSAR in the system design descriptions.
Appendix B (2/19/75)	Chapter 17 describes in detail the provisions of the quality assurance program which has been implemented to meet all applicable requirements of Appendix B.
Appendix C (9/2/68)	This Appendix provides a guide for establishing the Applicant's financial qualification. Consumers Power Company's financial qualifications were fully litigated before the Atomic Safety and Licensing Board, and the Board expressly found that Consumers Power Company had satisfied the burden of proving that it has reasonable assurance of having the funds it needs to design and construct the facility

Regulation (10 CFR) (Effective Date)	Compliance
	in compliance with the Commission's regulations.
Appendix D (8/19/74)	This appendix has been superseded by Part 51. The requirements of Part 51 have been satisfied.
Appendix E (5/29/81)	This appendix specifies requirements for emergency plans. An emergency plan has been prepared for Midland, and submitted to the NRC for review.
Appendix F (3/5/80)	This appendix applies to fuel reprocessing plants and related waste management facilities, not to power reactors, and is therefore not applicable to this proceeding.
Appendix G (11/20/79)	Fracture toughness requirements of this appendix and program requirements given in Appendix H form the basis for technical specification surveillance requirements dealing with the use of surveillance specimens. Additional information to demonstrate compliance can be found in Subsection 5.3.1, concerning the irradiation surveillance program. A request for exemptions to certain requirements are identifed and described in the response to NRC Question 121.17.
Appendix H (11/20/79)	Reactor vessel material surveillance program requirements are delineated in this part. Further information is provided in Subsection 5.3.1.6. A request for exemptions to certain requirements are identifed and described in the response to NRC Question 121.17.
Appendix I (4/19/76)	This appendix provides numerical guides for design objectives and limiting conditions for operation to meet the criteria "as low as is reasonably achievable" for radioactive material in light-water-cooled nuclear power reactor effluents. Consumers Power Company filed with the Commission the necessary information to permit an evaluation of Midland with respect to the requirements of Appendix I.

		on (10 CFR) ive Date)	Compliance
Appendix	J	(10/22/80)	Reactor containment leakage testing requirements for water-cooled power reactors are described in this appendix. Information concerning compliance can be found in Chapters 3, 6, and 16.
Appendix	K	(2/4/74)	This appendix specifies features of acceptable ECCS evaluation models. As noted above for Section 50.46, the analysis for Midland has been conducted using a model which has been accepted by the Commission staff as meeting the requirements of this appendix.
Appendix	L	(10/22/79)	This appendix covers information requested by the Attorney General for antitrust review of license applications. Refer to the compliance statement for Section 50.33a.
Appendix	М	(8/19/74)	This appendix covers standardization of manufactured plants and is not applicable to Midland.
Appendix	N	(2/18/75)	This appendix covers standardization of duplicate plants and is not applicable to Midland.
Appendix	0	(2/18/75)	This appendix covers standardization of design and is not applicable to Midland.
Appendix	P	(Proposed)	This proposed appendix applies to fuel reprocessing plants and is not applicable to Midland.
Appendix	Q	(6/6/77)	This appendix governs preapplication early review of site suitability issues and is not applicable to Midland.
Appendix	Q	(Proposed)	This proposed appendix will apply to fuel reprocessing plants and is not applicable to Midland.
Appendix	R		This appendix provides fire protection program requirements for nuclear power facilities operating prior to January 1, 1979. Midland was not operating prior to this date, so this appendix is not applicable. However, a comparison has been provided to the NRC by separate correspondence. The Midland Fire Protection

APPENDIX 3B

(Effective Date)	Compliance
	Evaluation Report is provided in Appendix 9A.
100.1 (5/12/62)	This regulation is explanatory and does not impose independent obligations on Consumers Power Company.
100.2 (3/3/75)	This regulation is explanatory. The Midland plant is not novel in design and is not unproven as a prototype or pilot plant. Therefore, no independent obligations are imposed on Consumers Power Company.
100.3 (5/12/62)	This regulation is explanatory and does not impose independent obligations on Consumers Power Company.
130.10 (12/13/73)	The factors listed related to both the unit design and the site have been provided in the application. Site specifics, including seismology, meteorology, geology, and hydrology, are presented in Chapter 2. The exclusion area, low population zone, and population center distance are provided and described. The FSAR also describes the characteristics of reactor design and operation.
100.11 (6/24/75)	An exclusion area has been established, as described in Subsection 2.1.2. The low population zone required by Paragraph 100.11(a)(2) has been established, as described in Subsection 2.1.3.4, as the area within a radial distance of one (1) mile from the centerline connecting the Unit 1 and 2 containments. Compliance with Paragraph 100.3(c) is addressed in Subsection 2.1.3.5.
	The FSAR accident analyses, particularly those in Chapters 6 and 15, demonstrate that offsite doses resulting from postulated accidents would not exceed the criteria in this section of the regulation.
Appendix A (1/10/77)	Appendix A to Part 100 provides seismic and geologic siting criteria for nuclear power plants. Compliance of the Midland site with these criteria has been litigated in a show cause proceeding involving foundation soils.

Regulation (10 CFR) (Effective Date)

Compliance

An order on this issue has not yet been rendered by the hearing board.

57H Summerset Drive Midland, Mt 48640 April 18, 1983

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Mr. James Keppler, Regional Administrator Nuclear Regulatory Commission, Region III Office of Inspection and Enforcement 799 Roosevelt Road Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

Over the past couple of months, a man, who used to work on the Midland nuclear plant, has called me several times to give me information that he believes is very important to relay, not only to you, but to our Attorney General Frank Kelley.

He will not provide an affidavit to the Government Accountability Project on these matters because he does not believe his anonymity can be adequately protected. He is now working for a Midland subcontractor, as I understand it.

His concern is about the many unqualified people there are at the plant site in jobs of critical importance to safety.

Since I notice in the testimony of Hon Cook, the resident inspector, his frequent mention of poor installation and even his requests to see the qualifications of workers because of poor workmanship, I believe there may be merit in these facts that I have been given over the phone or sent in the mail.

He gave me names of people he worked with who were not qualified for their assignments. They all worked for Bechtel or Bechtel aubcontractors. These include: Leo Davis—no Michigan engineering registration and no field experience who worked on systems requiring engineering. He s not some be has a degree of any kind. Dick Soderholm—no Michigan engineering registration, hittle field experience, worked in procurement Clark Ash—has a degree and sure in what), no Michigan engineering registration, little field experience, worked in procurement; Ed Entrokin—has no degree, is not registered as engineer in Michigan, field experience amounts to 2 or 3 years with Bechte). The sub-contracts did not have design authority—the balance of sub-contracts did not have design authority.

According to my informant, engineering design anchority was delegated to Zock by Bechtel. Zack also did not have qualified people for design work they were doing. People without adequate training were designing duet work, or pipe hangers and brackets.

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Page Two Mr. James Keppler April 18, 1983

Soils work was subcontracted by Bechtel.

Also, he stated that someone by the name of Cannoni was the subcontractor for soil compaction and he was also given subcontract for part of the underplaning of sinking buildings.

He claims that all work on any construction project beyond a certain limited size must be done as a Michigan registered engineer or architect.

He gave me the following citation from Michigan Compiled I aws 338,551Architects, Engineers, Surveyors, Article 20, Act 239, Public Acts of 1980 p. 902-7,
defines the role of licensed engineers and architects—does not give any exception
to Federal activity. Any building structure must be designed, planned and materials
and supplies Inspected under direct supervision of a licensed engineer.

He told me that a very good welder quit the project recently because the scheduling was so erratic. One day he would have an apprentice assistant, the next day a journeyman. He was forced to repair continually what was done. He said the Bechtel management here was the propest he had seen anywhere and he couldn't take it anymore.

The informant also sent me a sketch of management responsibility, rate and pay schedule of contractors for Beehtel and a copy of Article 20, Act 299, PA of 1980 on Architechts, Engineers and Surveyors. These materials are enclosed.

I hope your office will investigate these matters to protect the public health and safety of the people of this area.

Yours sincerely.

Than Ruclai

cc: Attorney-General Frank Keilev Senator Carl Levin Senator Don Riegle Congressman Don Albosta

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"GOVERNMENT ACCOUNTABILITY PROJECT institute for Policy Studies 1021 Que Street N.W., Washington D.C 20009 (202) 234-9382 February 10, 1984 FEOM: J. Lieberan Honorable Chairman Nunzio Palladino

Honorable Victor Gilinsky Handrable James Asseltine Honorable Thomas Roberts Homorable Frederick Bernthal United States Regulatory Commission Washington, D.C. 20555

Pe: In the Matter of Consumers Power Company Midland Mucleur Power Plant, Units 1 and 2 Docket Nos. 50-329/330 (10 C.F.R. 2.206)

Tear Commissioners:

On June 13, 1983, the Government Accountability Project (GAF) filed a Petition pursuant to 10 CFR 2.206 (Petition) on behalf of the Lore Tree Council and others (Petitioners), requesting specific items of relief regarding the Midland Nuclear Power Plant (Nidland). The Petition has been granted in part and denied in part in Director's Decision DD 83-16 and 2 84-02. On January 27, 1984 pursuant to 10 CFR 2.772, the Cornission extended the time within which the Commission may act to review the Director's Decision until February 10, 1964.

On the basis of the information provided in the Petition, and with the consideration of the additional facts and argument provided in this letter we request that the Commission take review of the Director's Decision.

Specifically, we renew our request for the Commission to:

- (1) Require that all ongoing activity, including the "soils work" 1/ be included under the Order of Modification of Consumer's Power Companys' (CPCo) construction permit for the Midland Plant. (Petition, page 13 - 15.)
- (2) Remove CPCo from managerial responsibility of the QA/QC function at the Midland plant, replacing them with an independent third-party with the responsibility to report simultaneously to both the NRC and CPCo. (Potition, Fage 20 - 22).
- Increase NRC staffing for the Midland Office of Special Cases (OSC). (Petition, page 22 - 23.)

1/"Spils work" in this letter refers to all activity, including underpinning of safety related buildings on the site, undertaken by CPCo following the December 1979 Stop Work Order issued by the Nuclear Regulatory Commission (NEC).

BASIS

The Government Accountability Project (GAP) filed a detailed request pursuant to 10 CFR 2.206 on June 13, 1983. The Inspection and Enforcement: Manual, Chapter 0800, £0860-04 requires that, in order for a request to be granted, it must specify the action sought by the Petitjoners and "set out the facts that constitute the basis for the request."

GAP assumes that the Director did not see the need for an expansion by Petitioner of the factual basis for its requests, since no request for further information was received. Moreover, since the request has been substanially granted (except for the items enumerated in this letter for which we renew our request), we assume that the supporting documentation and/or explanations provided the Director with an accurate protrayal of the basis upon which submitted our request.

However, much has happened at the Midland Project since the Petition was filed.

In determining whether or not the Commission should take review of the two Director's decisions issued in response to the Petition we believe that it is necessary to update the factual basis upon which our original petition was based. (This submittal is not an appeal or request for review of items granted in DD 83-16 and 84-D2, Petitioner recognizes that there is no procedure for appeal of Commission decisions under 10 CFR 2.206. Instances where the Directors' decision differs from our request which are not mentioned in this submittal can be construed as acceptable to Petitioners, unless stated otherwise in previous correspondence; i.e., our continuing slepticism toward Stone and Webster's competence and independence in their role as third-

UPDATE SUMMARY

Since June, 1983, CPCo's Midland project has suffered from a series of financial, construction, legal, and regulatory setbacks. Petitioners believe that the cumulative effect of these setbacks, described below, provides additional basis for our original requests for (1) Institutionalizing all reinspection programs under the Construction Completion Program (CCP), (2) Removal of CPCo from primary responsibility for the QA/QC function at the plant, and (3) the assignment of more NRC personnel to the Midland OSC.

1. DOW PULLOUT

- In July 1983 the Dow Chemical Corporation (Dow) cancelled its steam contract with CPCo, and brought legal action against CPCo in Midland County District Court. The Dow suit alleges that CPCo

made fraudulent misrepresentations and nondisclosures; made material breaches of its contractual and fiduciary

Nuclear Regulatory Commission Inspection and Enforcement Manual, Chapter 0800, Section 0860-04, "Guidance for Accepting or Dynying Requests for Enforcement Action," November 15, 1978.

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obligations to Dow; and demonstrated its inability to complete the Midland Nuclear Facility within any reasonable time or cost.

illegations contained in the Dow complaint point to a "dual cost and schedule" kept by CPCo since 1978. The Dow allegations are the subject of a Atomic Safety and Licensing Board (ASLB) contention which is expected to be litigated in late spring 1984.

2. STOCKHOLDER SUITS

Four stockholders suits have been filed to date by shareholders of CPCo stock. These suits have been filed against CPCo pursuant to provisions of the Securities Exchange Act. Essentially they allege that CPCo made certain material omissions in prospectus, made false statements to its stockholders, and willfully concealed information about the cost and completion schedule for the Midland plant. They accuse CPCo of deceiving potential investors about the stability of its construction project and inducing them to purchase stock that they would not have bought had CPCo disclosed known to them, or that should have been known to them, at the time.

Of particular interest to the Commission should be the Weiland suit, included as Attachment 1, which relies in great part on information provided from CPCo to the NRC at its April Caseload Forecast Panel (CLFP) meeting.

3. CASELOAD FORECAST PANEL CONTROVERSY

The NRC CLFP for Midland announced on December 20, 1983 that CPCo's schedule estimate (based on CPCo's April 1983 CLFP presentation) was "off" by at least 16 months. The December 20, 1983 letter from Thomas M. Novak, Assistant Director for Licensing of the Division of Licensing to Mr. J.W. Copk of CPCo designates that the NRC intends to use September 1986 as the "planning date for completing the Licensing review process for Unit 2." 4/

Internal disputes between the members of the CLFP and NRR management succeeded in keeping the NRC's knowledge about the expected delay from public disclosure for over seven months. Included as Attachment 2 to this letter is an affidavit from the undersigned, with exhibits, which detail the impropriety of the staff actions in withholding significant information regarding the incredulity of CPCo's completion schedule estimates given in April, 1983.

The text of the suit confuses the CLFP and the CCP, particularly with respect to meetings. However, it should be obvious to a knowledgeable reader whether plantiff Welland is referring to CCP activities or CLFP information.

Prichard A. Weiland versus Consumers Power Company, et al. (ED Michigan)

U.S. NRC letter, Thomas M. Novak to J.W. Cook, EPCo. December 20, 1983.

review, completed in mid-May 1983. (see Attachment 2. Exhibit 4) and prevented its disclosure to the Atomic Safety and Licensing Board (ASLB), and the public. CPCo management officials, however, did have knowledge of the CLFP's May estimates and successfully managed to get NRC release of the information queshed.

Had the CLFP information been disclosed at either the ASLB hearing or at the planned (but cancelled) public meeting CPCo would not have been able to portray false and misleading information to potential investors.

4. DIESEL GENERATOR BUILDING RE-REVIEW

A re-review of the acceptability of the Diesel Generator Building by a combined team of professional soils and geo-technical engineers from the Brookhaven National Laboratory, the NRC, and an outside consultant was conducted. It concluded, essentially, that the DGB could not meet federal regulatory standards for the Midland project, but that it would probably be acceptable.

The impasse continues over the DGB with a seemingly unresolvable controversy between numerous professionals. Of critical importance for the Commissioners consideration at this time in the non-negotiable position of the U.S. Corps of Engineers, who have refused to certify the building as safe.

The DGB review which was issued October 21, 1983 by the NRC, a December 2, 1983 Memorandum from J. Kane of the Division of Nuclear Reactor Regulation, and several drafts and supporting memorandum of the report issued to the undersigned under Freedom of Information Act (FDIA) request No. 83—_____ give insight into the preposterousness of the "mysterious" sixth conclusion of the DGB Re-review in the final report.

That conclusion, which was added after several levels of internal dispute, states:

While significant cracking has occurred in the DGB, it is our opinion that the structure will continue to fulfill its functional requirement. This conclusion is based on the fact that stresses induced in the structure by all other extreme loadings are small.

However, the original Brookhaven report contained a conclusion six that was totally opposite the final, publicly issued, version. That "bottom line" stated

It is recommended that a repair program be developed and implemented.

It is our understanding that, in fact, several repair recommendations were in the development stage by the team that did the reanalysis. Those recommendations were, however, never disclosed or even discussed.

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The ASLE DM hearings must also conclude that there is a reasonable assurance that the public health and safety of the Midland/Saginaw/Bay City area would be protected under any conditions. That may not be possible, regardless of how many staff "edits" are made of the truth about the DGB.

5. FAILURE OF CPCO TO MAP AUXILIARY BUILDING CRACKS

The NRC discovered in January 1984 that CPCo has not mapped all of the cracks in the Auxiliary Building (Aux Building), and that neither CPCo nor the NRC know the extent or the seriousness of the cracks in the building.

On February 8, 1984 CPCo provided the NRC DSC team with a package of documentation in an attempt to explain away the problems. At the monthly public meeting between Stone and Webster, the NRC, and CPCo Mr. J. Mooney gave a detailed presentation of the new crack monitoring -program. They also presented a weak explanation of why the entire building had not been monitored for cracks for the past five years.

Their explanation, that certain "hairline cracks" weren't required to be mapped or included in the crack mapping, and that crack mapping T. -- was never intended to cover certain "inaccessible" parts of the Aux Building. defys reason.

A preliminary review of NRC/NRR time and effort that has gone into an evaluation of the Aux Building indicates that slightly over half of all recent efforts have gone into technical work on the Aux Building. The money spent by the agency is now largely wasted. Re-evaluations, more ergineering analysis, more staff inspections will be required. All of that could have been avoided had CPCo demonstrated any regulatory responsibility.

The ASLB OM hearings will probably now also have to be reopened into the Aux Building. (That motion is pending before the Board at this time.)

Other problems with the Aux Building as the underpinning effort continues plague CPCo. For example, the summary of an audit held on January 4 - 6, 1984 (Report No. 50-329/84-01(050);50-330/84-01(050) concluded that upward building movement limits established by the contractor and proposed by CPCo in response to unanticipated upward building movement were unacceptable.

6. ENFORCEMENT ACTION, RE: VIOLATION OF BOARD ORDER/NRC STAFF

An Office of Irvestigations (OI) investigation into a July 1982 incident where EPCo deliberately drilled into a deep-Q duct bank, and removed soils in order to lay certain cables, concluded that CPCo had excavated the soil without the required prior NRC authorization.

As a result of those findings the Region recommended a civil penalty of -1 -- - 4100,000.00 be levied on EPCo. That Enforcement Action was almost issued as - 6 -

Enforcement Notice 83-69. However, after an unannounced meeting between the Director and CPCo Counsel M. Miller, and subsequent discussions between the Regional Director and the Director --but not with the R111 staff--the Livil Penalty was withdrawn.

Instead DD 84-02 was issued which incorporated an Order for CPCo to submit to an independent management audit. GAP vehemently protested the withdrawal of EN 83-69, and the misrepresentation that the management audit which was first proposed in the Petition and which CPCo agreed to in October 1933) was an adequate response to the OI findings.

Our foremost complaint about the handling of the Violation of the Board Order is that the OSC team and regional management made a firm recommendation for a civil penalty. (Presumably this was based on their commutative experience with CPCo's blatant disregard for regulatory requirements that are inconvenient to CPCo.) Then, exhibiting CPCo's infamous ability to seek out and find someone in the NRC who will agree with CPCo's best interests, a meeting was arranged between the lawyer (not management) who was responsible for litigating the very same issue in front of the ASLB and the Director. No opportunity was provided for factual rebuttal by the OSC team, even though members of the team were present to observe the actual violation of the order.

RENEWED REQUESTS

Petitioners requested six specific actions in the original June Petition. These were requested "to protect the future public health and safety of central Michigan residents..." For the same reason, and additionally based on information summarized above, we renew our request for three of the original six items.

1. Require that all ongoing activity, including the "spils work," be included under the Order of Modification of CPCo's construction pennit for the Midland Plant. (Petition, page 13 - 15)

The Director's Decision, issued October 6, 1983, responded to that request

It should be noted that the CCP does not include the remedial soils program, nuclear steam supply system installation. HVAC installation, and the reinspection of pipe hangers and electrical cable. The remedial soils activities are being closely inspected under the conditions of the construction permits which implement the Atomic Safety and Licensing Board's April 30, 1982 order and work authorization procedure. Therefore, the staff does not consider it necessary to require the remedial soils activities to be included in the CCP. Controls over the soils work have been implemented under a separate program.

Similarly, reinspection of the pipe hangers and electrical cable we were not included in Phase I of the CCP because that reinspection is being done under a separate commitment to the NRC... Nuclear Steam Supply System installation and HVAC installation were not drawn into question by the diesel generator building inspection. -(DD 83-16, at 7.)

___ Since the decision was issued in October EPCo activities regarding ---- "the soils program, the HVAC installation, and pipe hanger and electrical cable reinspection programs have demonstrated that the staff's position __ was premature. In fact, the Decision should have clarified which part of the staff was being represented in that statement.

----Each of the above listed systems and the soils work have undergone major reviews, and Petitioner acknowledges that construction completion will occur under the Construction Implementation Overview (CIO), however, given recent discisoures and identified problems (such as the identification of cracks in the Aux building), it is no longer acceptable to "take CPCo's word for it," in regard to critical systems.

The HVAC reinspection program, and the NRC HVAC inspection, have been _____pn-going for almost two years. Yet, new witnesses that GAP has interviewed who worked as field engineers on the system disclose that problems were . being actively "covered up" by CPCo instead of being repaired. These witnesses .. would have talked to NRC inspectors, had they been independently interviewed, however -- no one contacted them. GAP investigators are in the process of reviewing their concerns and will submit affidavits upon the completion of the same. The message is clear, however, that CPCo continues to view the NRC as capable of identifying only a limited amount of the problems. and unless forced to by inclusion under DD 83-16 will not comply with the voluntary disclosure of hardware problems.

Both the pipe hanger and the electrical inspections.

also failed to disclose information given to the NRC by other sources, in-Both the pipe hanger and the electrical inspections conducted by EPCo

GAP urges the Commission to re-review this request and include the information from the OSC team regarding problems in the exempted systems.

2. Remove CPCo from managerial responsibility of the QA/QC function at the Midland Plant, replacing them with an independent third-party with the responsibility to report simultaneously to both the NRC and CPCo. (Petition, page 20 - 22)

The Director's Decision responded to that request as follows:

While it might be permissible under Appendix B to 10 CFR Part 50 for CPCo to retain an independent organization to execute the QA/QC program, the licensec remains ultimately responsible for the establishment and execution of the program. As stated above, the

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staff considers the strengthening of MPQAD to be a positive step in improving CPCo's capability to assure the quality of construction of the Midland facility. In view of the relatively short existence of the MPQAD, there does not currently exist any justification for requiring CPCo to retain an outside organization to execute the QA/QC program. (Emphasis added)

... That response was based upon the information contained in the June 1983 Petition. At that time, besides the historical references, there were three on going Office of Investigations investigations into deliberate misconduct by CPCo. Two of the three have now been completed, both which point the finger squarely at CPCo management for misleading the NAC regarding important safety related activities.

First, the Boos investigation, concluded that at least one CPCo official know that the representation made at a Bethesda meeting between AFR/RIII and CPCo was not true. No enforcement action was taken as a result of that incident. Mr. Keppler, RIII Director, commented at a public meeting that this incident was the last time he would give CPCo the benefit of the doubt.

The second incident, drilling through the deep-Q duct bank in violation of the board order about work authorization permits was the next incident. As discussed previously in this letter, Mr. Keppler did recommend strong enforcement action after the OI investigation concluded that CFCo had violated the board order. Unfortunately, the Director decided to "give them one more chance," and dismissed the civil penalty recommendation.

The third investigation, still on-going, into CPCo's witholding of information about an internal quality assurance breakdown of the Zack fontany is expected to be issued in the near future. Regardless of the technical findings it is unlikely that CPCo will be able to weasel out of hove any the simple facts surrounding their failure to notify the NRC. They did not oction on

Finally, as also discussed previously in this letter. CPCo management has now conceded that no one, not even CPCo, knows the number or extent of the indusands of cracks in the Aux Building. This despite the fact that they have permitted the NRC to spend hundreds of thousands of taxpayer dollars on evaluations of the safety of the building.

Contained in the Dow and stockholder suits are numerous examples of CPCo deceit of shareholders, business partners, investment companies and the public at large. Discovery in these cases is revealing, on a daily basis, the extent to which CPCo has been willing to go to protect its survival as a company.

At Zimmer the NRC witheld approval of a reinspection program that contained a plan for the H.J. Kaiser company to continue as prime contractor because they were under investigation! Here the Company has been under investigation, and rultiple investigations for the past two years. Some of those investigations take concluded that CPCo was guilty of what it was accused of. Surely the staff

cannot continue to protend that there is not now justification for requiring CPCo to retain an outside organization to execute the QA/QC prooram.

At a minimum that responsibility should be transferred to a third-party until the completion of the management audit.

This request, the removal of CPCo management officials from the OA/OC function for the Quality Verification Program (QVP) is of immediate concern. The QVP is just beginning. At the February 9, 1984 public meeting Stone and Web ter officials reported that the first QVP report was issued on February 3, 1984. Of the thirteen work packages reviewed by S&W three non-conformances were written and another eight findings were discovered. GAP, nor the NRC, have yet received that report. However, as Saw begin to step up their OVP operations this month it is critical that they (or another party) have an institutionalized responsibility for reportability under 10 CFR to . the NRC.

If it were possible to indict one person or group of persons for the problems which CFCo has had over the past 15 years the solution would be a simple one. However, that is not the case. GAP's experience with the management audit of Cincinnati Gas and Electric (CG&E) officials gives some insight into the types of problems that can be discovered for the faults that CPCo has suffered from. Yet, the identification of the root of the problem of a poor managerial attitude and inadequate regulatory relationships cannot guarantee the single issue which the Commission is responsible for certifying that the Midland Nuclear Power Plant if safe.

Any error in deciding this request should be made on the side of prudence towards public health and safety -- not concern for the corporate financial viability of CPCo.

3. The increase in NRC staffing for the Midland Office of Special Cases (Petition et 22 - 23.)

The Director's decision responded

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The fifth issue relates to a metter of internal Commission organization and staffing, namely the allocation of staff to inspection of facilities. The staff is expecting to augment inspect inspection personnel available to work on Midland. However. the creation of positions within the Office of Special Cases is a matter that will be determined by the Commission budget process. For these reasons, the staff is not considering this aspect of the request in this decision.

We renew our request for increased assignment of personnel to the OSC team. We understand that there has been the assignment of one additional inspector within the past week to the OSC team. We are relieved that the Commission recognizes the need for increased staffing and has appropriated funds for an additional inspector. However, there simply is much more work than even six inspectors can handle.

With recent events in Region III (i.e., the cancellation of Marble Hill ent Zimmer) we assume that resources are currently available for designation to Midland. GAP staff did a review of the inspection-hours expended on the Marble Hill and Zimmer projects during the calendar year of 1983. According to the Regional inspection reports there were 2,989 inspection hours for Zimmer and 1,895 inspector hours for Marble Hill. A review of the assigned personnel indicated a full-time Project Manager for both plants in the Office of Nuclear Reactor Regulation and other technical resources not identified by Project in NRR. According to NRC files Zimmer had two resident inspectors and one senior resident inspector, and Marble Hill had one senior

By comparison. Midland has one senior resident inspector and one resident inspector, and also one Project Manager (NRR). At Midland during 1983 there were 2,501 inspection hours (that does not include the 734 inspector hours s, ent on the DGB inspection in late 1982). Those inspections were conducted when the majority of safety-related construction was helted (from December 1982 -

If, a the NRC Regional Director and the Director of IE maintain, the public con Jence in the CCP should be based on the oversight of the NRC inspectors than there must be more inspectors. The S&W representative indicated . the February & public meeting that based on workload S&W would increase its personnel as the QVP operation increased. It is simply impossible for five or six inspectors, with limited technical resources, to keep up a regular regulatory program, deal with allegations and information provided by workers and others, overview a floating inspection program, contimus oversight of the underpinning efforts, and monitor the most complicated construction program on going in the nuclear industry.

CAP has a great deal of confidence in the OSC team assigned to Midland. . Yet we recognize the limitations of a 24-hour day, and a seven day week. We

CONCLUSION

This submittel summarizes our renewed request for three items not responded to in DD 83-16 and DD 84-02. If the Commission does not take review of these . items under the provisions outlined in this letter GAP requests that it be considered . as a separate request filed pursuant to 10 CFR 2.206.

Our concern for the continuing deterioration of the Midland contruction . I reject heightens every day. We recognize, as should the Commission, that this istoject is out of control. With the recent events in the nuclear industry that have occurred at plants with late-discovered quality assurance breakdowns it is inexcusable that troubled projects, such as Midland, not receive the extra -frasures of assurance that the agency is capable of providing.

We look forward to your response.

Biller Farmer Gardenne Billie Pirner Garde Citizens Clinic Director

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