



Consumers
Power
Company

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US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
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MIDLAND PROJECT
DOCKETS 50-329, 50-330
IE BULLETIN 81-02, SUPPLEMENT 1
FILE: 0505.12 SERIAL: 14847

IE Bulletin 81-02, Supplement 1, requested the verification of the presence or absence of any valves manufactured by Westinghouse Electro Mechanical Division, in particular their motor-operated gate valves.

CP Co's letter of May 15, 1981, Serial 12510, in response to IE Bulletin 81-02, stated that no valves of the type or service described in IE Bulletin 81-02, for use as power-operated relief valves (PORV) block valves or in other safety-related systems, are being used or planned for use in the design of the Midland Plant.

Our review in accordance with IE Bulletin 81-02, Supplement 1, has determined that the Midland Plant has procured 30 W-EMD manufactured motor-operated gate valves of the type in question. Twenty of the total 30 valves are safety-related. Of the 20, 12 must close against a differential pressure to perform a safety function. Ten valves have been purchased as spares.

The attached table gives the functional requirements, operating conditions, etc, for the Midland valves presently installed.

Functional requirement operating conditions for each valve closure has been reevaluated and confirmed that no problem exists with the closure of the 20 valves installed at the Midland Plant.

As a result of our review, the following corrective actions will be taken:

1. The 20 installed valves will be used as is in their existing application.

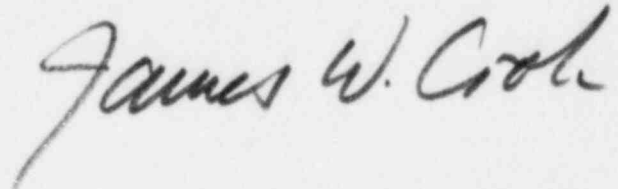
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2. Valve data sheets and drawings for all 30 valves will be revised to reflect reevaluated differential pressure and/or the maximum permissible differential pressure.
3. The above actions will be completed by April 1, 1982.

Based on our reevaluation and the corrective actions outlined, we do not consider the W-EMD valves to pose any problem in the safe operation of the Midland Plant and thus consider this matter closed.



JWC/WJH/fms

CC RJCook, Midland Resident Inspector
DSHood, NRC
DBMiller, Midland
NCMosely, NRC

TABLE NO 1

VALVE FUNCTIONAL REQUIREMENTS FOR CLOSURE AND OPERATING CONDITIONS

Valve #/Description	Safety Related Function	Functional Requirement For Closure	Pressure Below Which Valve Will Close
W-EMD 14GM88NNH 1MO-1001A,1MO-1001B 2MO-1101A,2MO-1101B Core Flood Tank Isolation Valves	Valve closure required to permit de-pressurization of RCS during transition to cold shutdown. Core flood tank venting could be used as a backup if valves did not close	0 psi A pressure cannot be realized across the valve until it is closed and de-pressurization of the plant proceeds, which is lengthy compared to valve closure time. No flow across valve during closure.	1225 psi
W-EMD 12GM88FNH 1MO-1011,1MO-1012 2MO-1111,2MO-1112 Decay Heat Removal Letdown Isolation Valves	Valve closure required to isolate line break in DHR system Interlock closes valve if one of the two valves in series is left open during plant heatup	650 psi 0 psi Pressure is 0 psi because one of two valves in series is assumed already closed. No flow across valve during closure	1225 psi 1225 psi
W-EMD 10GM88FNH 1MO-1020A,1MO-1020B 2MO-1120A,2MO-1120B DHR Low Pressure Injection Isolation Valves	Valves normally in locked open position. There is no safety related function to close these valves	N/A	1200 psi
W-EMD 08GM84FEH 1MO-1207A,1MO-1207B 2MO-1307A,2MO-1307B Reactor Building Spray Pump Isolation Valves	There is no safety related function to close these valves	N/A	300 psi
W-EMD 03GM82FBB 1MO-1411,2MO-1411 Refueling Canal Skimmer Overflow	Valves receive a closure signal from RBIS and would close if inadvertently left open. There is a locked, closed manual isolation valve in series during normal operation	75 psi No flow across valves during closure	300 psi

<u>Valve #/Description</u>	<u>Safety Related Function</u>	<u>Functional Requirement For Closure</u>	<u>Pressure Below Which Valve Will Close</u>
W-EMD 04GM82FDH 1MO-1257,2MO-1357 Reactor Building Sump Drain Isolation Valves	Valves receive a closure signal from RBIS and would close if inadvertently left open. There is a second air operated reactor building isolation valve in series with each valve.	75 psi	250 psi