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May 10, 1977

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U.S. Nuclear Regulatory Commission  
Washington D. C. 20555



RE: Midland Proceeding - Tendon Sheathing

Gentlemen:

On April 19, 1977, a nonconformance involving the placement of four tendon sheathings to be installed at approximately elevation 700'-704' in the Midland Unit 1 containment building was discovered. These four tendons were to be deflected downward to clear the two main steam line penetrations at center line elevation 707'-0". Contrary to this, two tendon sheathings (H32-036 and H13-037) were installed horizontally and two tendon sheathings (H32-037 and H13-037) were not installed. Concrete was poured to a construction joint at elevation 703'-7" approximately one week before this nonconformance was found by the survey team making preparation for the next wall lift. Attachment 1 shows the design and "as built" alignment. The NRC was notified on April 19, 1977 of this nonconformance and NRC personnel inspected the jobsite on April 21 and 22, 1977.

At the present time, Consumers Power is proposing to correct this matter by installing one sheathing (H13-037) below the penetration and above the 703'-7" elevation and one sheathing (H32-037) above the penetration. The remaining two tendon sheathings will remain as placed. Attachment 2 illustrates this proposal. This proposal has been approved by the architect-engineer and the supplier of the post-tensioning system and meets the original design requirements. This proposal was reviewed with the NRC on May 4, 1977. There will be no delay in the schedule and the cost will be less than \$30,000 to implement this proposal.

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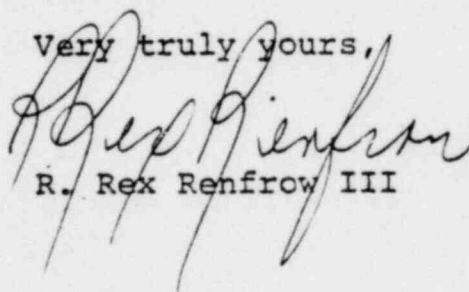
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THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

With regard to the cause of this incident, the drawings and survey layout control points were correct but they were not followed when the sheathings were installed. To insure that this nonconformance is not repeated, the survey crew will be required to verify in writing the correct placement of each sheathing, rather than verifying the installation of all sheathings in a wall lift collectively, as was the prior practice. The Quality Control Instruction has been revised to emphasize that Quality Control personnel are to compare the actual installation to the drawings and to verify the configuration and number of sheathings. Consumers Power has also agreed to implement the six action items recommended by the NRC in its letter of April 29, 1977. Discussions on corrective action are continuing between Consumers Power and the NRC.

I will provide the Board and the parties with a copy of the final report on this matter when it is completed.

Very truly yours,



R. Rex Renfrow III

RRR/rf

Enclosure

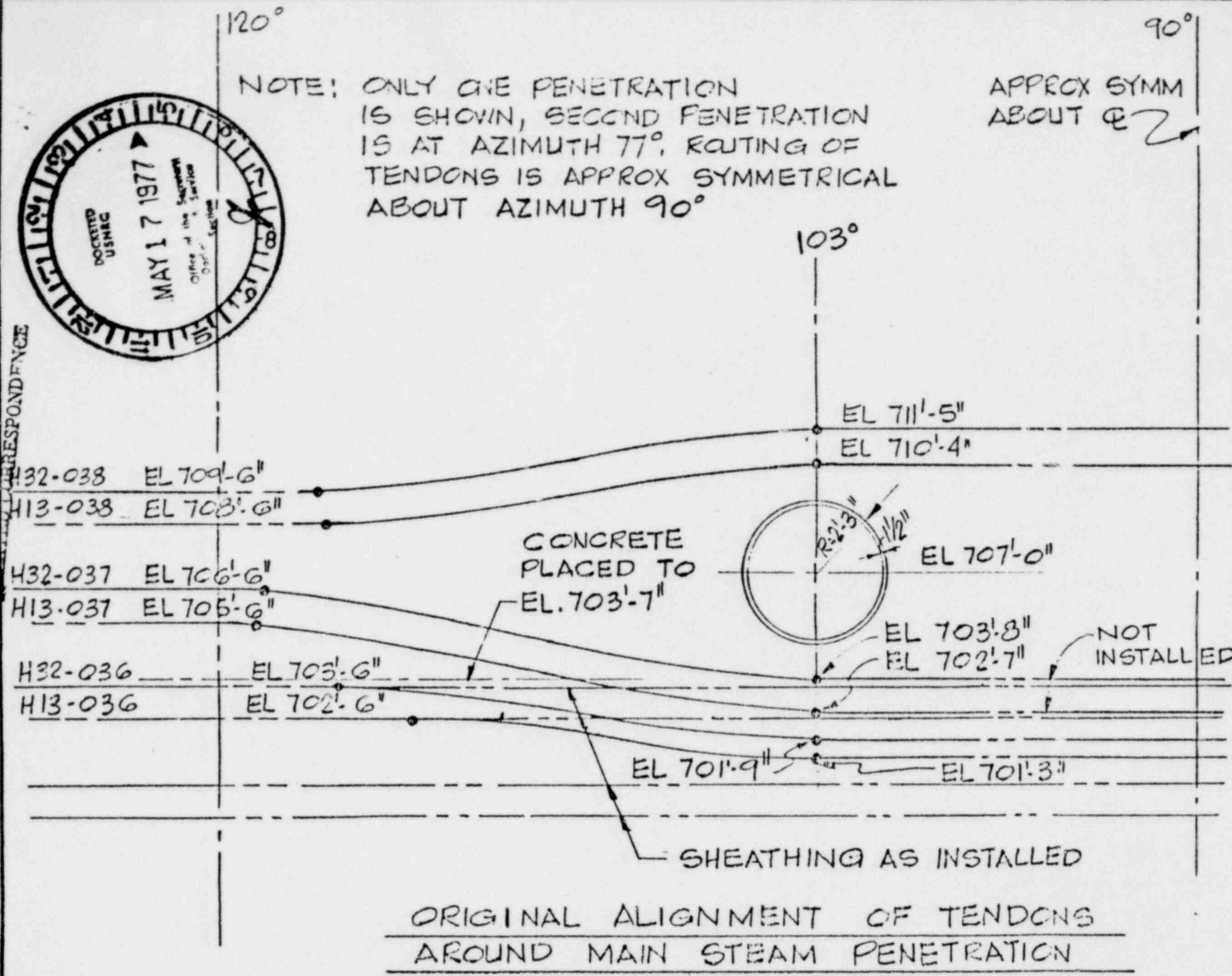
cc: Service List (w/Encl.)

ATTACHMENT



NOTE: ONLY ONE PENETRATION IS SHOWN, SECOND PENETRATION IS AT AZIMUTH 77°, ROUTING OF TENDONS IS APPROX SYMMETRICAL ABOUT AZIMUTH 90°

APPROX SYMM ABOUT  $\phi 2$



ORIGINAL ALIGNMENT OF TENDONS AROUND MAIN STEAM PENETRATION

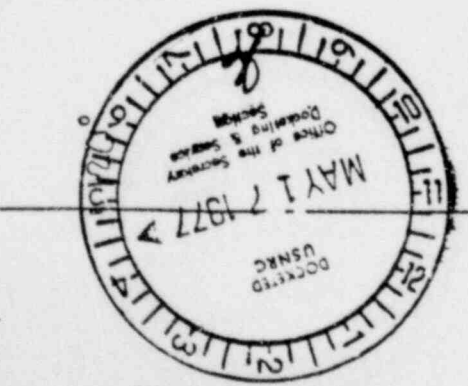
SHEET #1

8007160 908	ISSUED FOR INFORMATION	R.B.	R.E.	J.A.	FICIN...
	REVISIONS	BY	CHK.D	GROUP LEAD	GROUP SUPV.
SCALE	DESIGNED	DRAWN		P.B.	
ORIGIN	MIDLAND PLANT UNITS 1 & 2 CONSUMERS POWER COMPANY REACTOR BLDG UNIT 1				
No.	DATE	JOB No.		DRAWING No.	
		7220		SK-C-537	
		REV.		A	

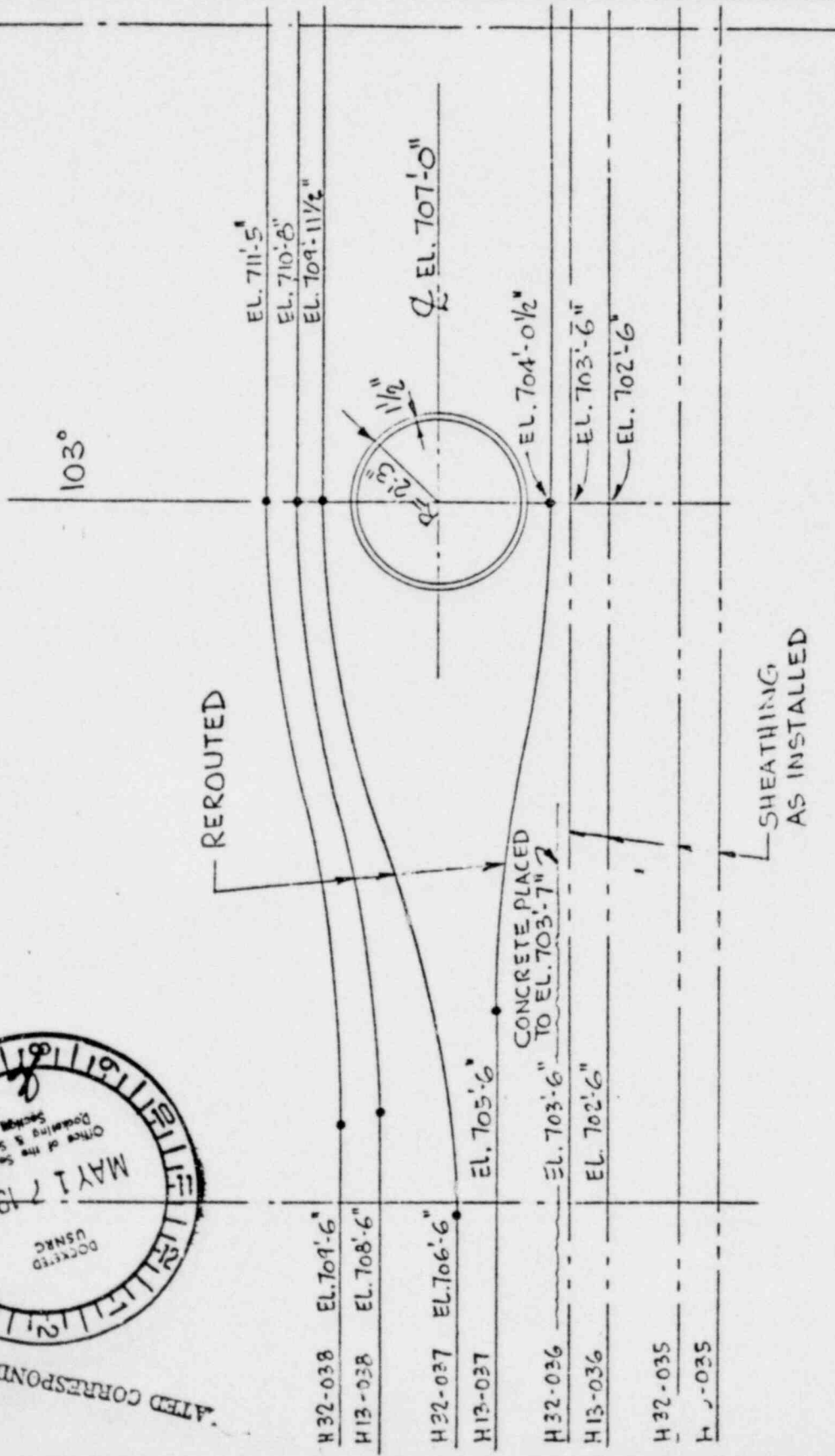


ORIGIN		MIDLAND PLANT UNITS 1&2		CONSUMERS POWER COMPANY	
SCALE 1/16" = 1'-0"		DESIGNED K. 240		DRAWN JD	
No.	DATE	REVISIONS	BY	CHK'D	GROUP LEAD
1	4/8/77	ISSUED FOR INFORMATION	JD	R.A.	7.A
2					
3					
3002160910					
JOB NO. 7220		DRAWING NO.		REV.	
SK-C-538		REACTOR BUILDING UNIT 1		A	

NOTE:-  
ONLY 1 PENETRATION IS SHOWN;  
SECOND PENETRATION IS AT AZIMUTH 77°;  
ROUTING OF TENDONS IS APPROX.  
SYMMETRICAL ABOUT AZIMUTH 90°.



ATED CORRESPONDENCE



REVISED ALIGNMENT OF TENDONS  
AROUND MAIN STEAM PENETRATION

SHEET "2"