



Consumers
Power
Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

April 11, 1974

Mr. John F. O'Leary, Director
Directorate of Licensing
United States Atomic Energy Commission
Washington, DC 20545

Re: Docket 50-255
License DPR 20
AO-12-73
Palisades Plant

Dear Mr. O'Leary:

My letter of August 29, 1973 reported the failure of a motor operator of the concentrated boric acid pump feed stop valve (MOV-2140) at the Palisades Plant. At that time the cause of the failure was suspected to be that the valve (hence, the lever) had been used as a convenient stepping point during construction and early operation of the plant. Further investigation has revealed that use of the valve as a stepping point was not the cause of the failure.

We have concluded that MOV-2140 failed because the cam was not properly installed during factory assembly. The correct position of the cam is on the forty-five degree bevel of the pawl as shown on the attached drawing. The "as found" condition was as shown on the attached drawing. It is suspected that the loose cam could get behind the pawl which would cause the pawls to break. This allowed operation of the valve until the mislocated cam caused the pawls to break.

As the cause of the failure was not due to the valve being used as a stepping point, we do not intend to pursue the elimination of stepping points as stated in the August 29, 1973 letter. We feel that the corrective maintenance performed on this valve and the inspection of two other similar motor-operated valves in which no abnormalities were found provide assurance that these types of motor-operated valves will function as designed in the future. In addition, all motor-operated valves of this type have been satisfactorily test operated as stated in the August 29, 1973 letter.

Yours very truly,

Ralph B. Sewell
Nuclear Licensing Administrator

RBS/smm

CC: JGKeppler, USAEC

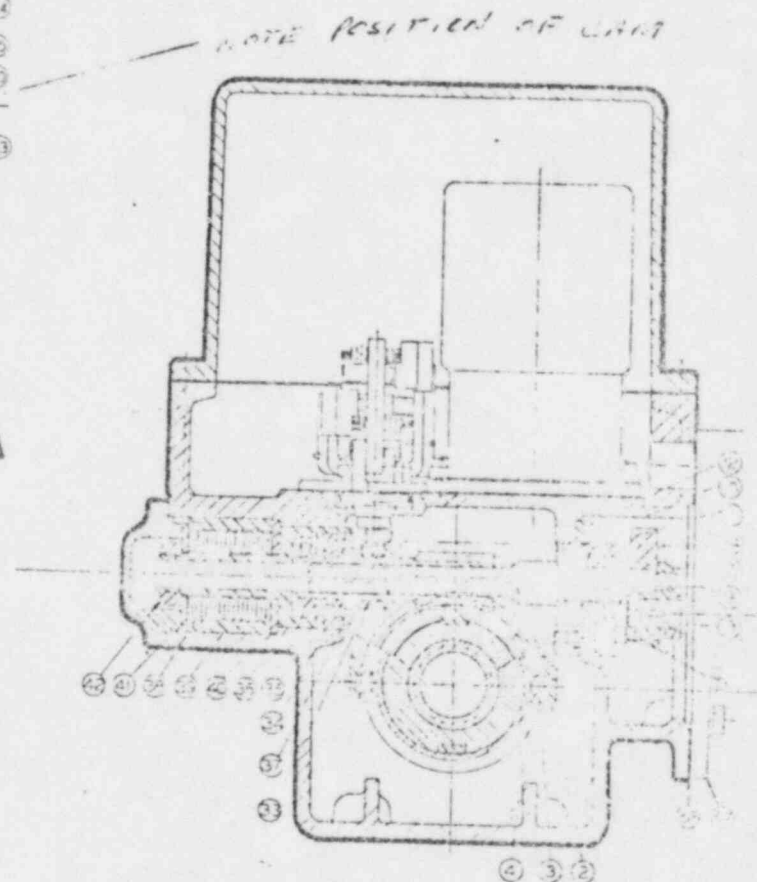
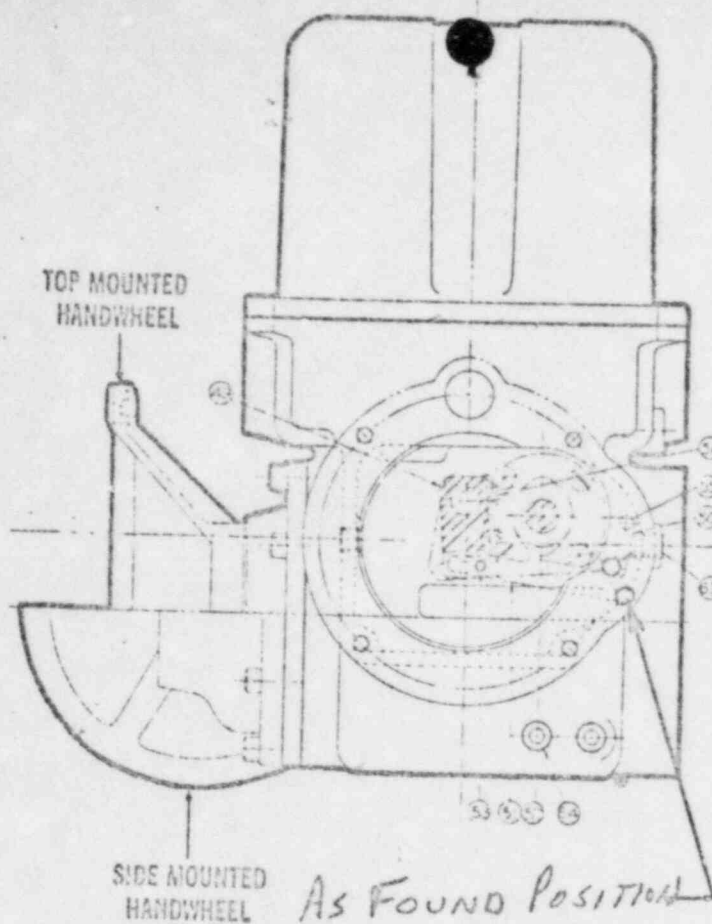
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FROM
LIMITORQUE MANUAL



01-403-0013-4

PC. NO.	NO. REQ.	DESCRIPTION	PC. NO.	NO. REQ.	DESCRIPTION	PC. NO.	NO. REQ.	DESCRIPTION
49	1	Tripper Lever	65	1	Terminal Bracket	79	1	Spacer - Bearing
50	1	Tripper Adjustment Arm	66	1	Terminal Strip	80	1	End Bearing
51	1	Tripper #1	67	1	Limit Switch Compartment Cover	81	1	Retaining Ring
52	1	Tripper #2	68	1	Limit Switch Compartment Gasket	82	1	Spacer - O-Ring
53	1	Spring Pin	TOP MOUNTED HANDWHEEL			83	1	O-Ring
54	2	Spring - Tripper	69	1	Housing Cap	84	1	Bevel Gear Housing
55	1	Tripper Adjustment Arm Pivot Pin	70	1	Handwheel	85	1	Gasket - Bevel Pinion Cap
56	1	Motor Pinion	71	1	Quad Ring	86	1	Bevel Pinion Cap
57	1	Motor	72	1	O-Ring	87	1	Bevel Gear
58	1	Gasket - Motor	73	1	Retaining Ring	88	2	Quad Ring
59	1	Limit Switch Assembly	74	1	Grease Fitting	89	1	Bevel Gear Girth Key
60	1	Bevel Limit Switch (Wholen Ass'y)	75	1	Gasket - Housing Cover Top	90	2	Gasket - Housing Cover Top
61	1	Bevel Limit Switch Assy	76	2	Gasket - Housing Cover Top	91	4	Gasket - Housing Cover Top
62	1	Bevel Limit Switch Assy	SIDE MOUNTED HANDWHEEL			92	1	Grease Fitting
63	2	Pipe Plug - Pipe Top	77	1	Handwheel Bevel Pinion	93	1	Hammerhead
64	2	Pipe Plug - Pipe Top	78	1	Ball Pinion	94	1	Hammer