

"Valve Maintenance Record" Instructions

General Information

Ensure that all natural gas block valves (2"and greater for gas transmission district-maintained facilities) requiring maintenance per this work procedure and ball or plug valve regulators have a completed "Valve Maintenance Record" form For gas transmission district-maintained valves smaller than 2", use the "Technical Maintenance Equipment Card"

Instructions for preparing the "Valve Maintenance Record" Form

- 1 Copy the Form onto white, 67-pound weight card stock
- 2 Copy Page 1 ("General Information") of the "Valve Maintenance Record" Form onto one sheet of paper
- 3 Copy Page 2 ("Service History") of the Form onto a separate sheet of paper so that the Service History more than 5 years old can be discarded without losing the general valve information
- 4 If a sketch is required, attach it to the Form
- 5 Fill out the "Valve Maintenance Record" in permanent ink

Explanation of "Valve Maintenance Record" Entries

- 1 General Information (Page 1 of the "Valve Maintenance Record")
 - A Division/District List the name of the division or district that is maintaining the valve
 - B Valve No This is the unique number assigned to the valve. This number must be consistent with the Operating Map, Operating Diagram, Division Station Sketch or Division Plat Sheet.
 - C SAP WM No This is the unique number used by the work-scheduling program to identify the maintenance required on the specified valve
 - D Location This refers to the physical location of the valve If a location sketch is necessary, provide a sketch on a separate sheet of paper. For valves not shown on a Station Operating Diagram, Operating Map, Division Station Sketch, or Division Plat Sheet, a location sketch is required. Station valves must always be shown on either an Operating Diagram or a Division Station Sketch.
 - E Transmission or Distribution Insert an "X" in the box to signify whether the valve is a
 - Gas Transmission 'Emergency Valve' or 'Other Valve'
 - Gas Distribution 'Station Valve' or 'Critical Main Valve'
 - F Maintenance personnel must prepare a "Valve Maintenance Record" for each new valve and verify that the proposed (prior to construction) and final (after construction) Operating Diagram, Operating Map, Division Station Sketch, or Division Plat Sheet have been issued and are accurate

2 Valve Data

Fill out the information in the "Valve Data" section The Serial Number field is optional but should be filled out if the information is available Plastic valves do not have serial numbers so put "N/A" in the "SERIAL NO" space

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Complete the information on the recommended valve lubricant/sealant and the required frequency of lubrication and/or inspection. Manually—operated ball valves do not require lubrication, however, they are required to be operated at least once annually. The following Table 1 summarizes the recommended seat lubricant/sealant and stem packing for the various makes of valves.

Table 1 Recommended Seat Lubricant/Sealant and Stem Packing Summary

Manufacturer	Туре	Seat Lubricant/Sealant	Stem Packing	
Rockwell/ Nord (not DB)	Plug	Rockwell 1033	Rockwell 909	
Rockwell/Nord (DB)	Plug	Rockwell 1033	NA	
Walworth	Plug	Rockwell 1033	Walworth 630 (909)	
Resun	Plug	Contact GT&D Engineering	Contact GT&D Engineering	
Serck Audco	Plug	Rockwell 1033	Rockwell 909	
Becker Ball Valve Regulator	Ball	Sealweld 911	See Note 1	
Grove	Ball	Sealweld 911	See Note 1	
KF	Ball	Sealweld 911	See Note 1	
PBV-USA	Ball	Sealweld 911	Sealweld 5050	
Delta	Ball	Sealweld 911	Sealweld Equa-Lube 80	
Orbit	Ball	NA	Orbit GP-6	
Cameron	Ball	Sealweld 911	Sealweld 911	
Rockwell (pre 1974)	Ball	Rockwell 1033	Rockwell 950 (5050)	
Rockwell (post 1973)	Ball	Sealweld 911	NA	
TK	Ball	Sealweld 911	See Note 1	
WKM	Ball	Rockwell 1033	WKM 107	
Grove	G-4 Gate	Sealweld 911	See Note 1	
Grove	G-3, G-9 Gate	NA	See Note 1	
Grove	G-5 Gate	NA	NA	

Note 1 Use 80/90 weight gear oil for a minor leak. If the leak does not stop and a large buttonhead fitting is furnished for the stem sealant injection, use Sealweld 911. If the leak still does not stop, use Rockwell 950 or Sealweld 5050 as a last option.

If the valve has an enclosed gearbox operator, document whether the gearbox

- Has a Bettis breather installed on top of the gearbox, and
- · Is filled with oil

Subsequently, if the oil is ever drained, indicate this action on the Form. It is acceptable not to refill the gearbox. See Section 3 B 2 ("Manually Operated Valves"), on page 4 of the main work procedure, for use of Selig grease.

If the valve is buried and has a high-head extension, document whether the extension has a vent installed. The vent can indicate whether or not the entire valve stem seal on a buried valve has failed

Use the "Comment" section to provide any additional maintenance information or notes. Note if Sealweld 5050 has been used in the valve. Note if a plug adjustment has been made (plug valves only)

Note If a gearbox or a high-head extension does not have a Bettis breather, put a note on the Form to install a breather

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3. Service History

Use this portion of the "Valve Maintenance Record" to document the maintenance performed on the valve, as well as to document any required repairs and action taken. If a valve is found to be inoperable, notify the maintenance supervisor immediately. Retain the valve maintenance service history for a minimum of 5 years.

VERIFY VALVE NO: Verify the number on the valve tag against the Operating Map, Operating Diagram, Division Station Sketch, or Division Plat Sheet, and on the Valve Maintenance Record.

- i.) If they do not match, notify the maintenance supervisor immediately.
- ii.) For any changes required on an Operating Diagram or Operating Map, submit revisions to the GT&D Principal Mapper, per the requirements of S4460, Attachment 1.

INSPECT: See "Inspection Procedures" in Section 4, on Page 5 of the main work procedure. **LUBE:** (If required). **Note:** "If required" refers to the need to lubricate all plug valves and all ball valves having power actuation. Gate valves do not require lubrication.

OPERATE: Check the box to show that the valve has been operated.

VALVE POSITION: Log the "As Found" and "As Left" positions as C (closed), O (open), or T (throttling). After operating a valve, return it to the "As Found" position.

- i.) If a valve is found in the wrong position according to a diagram or maintenance record, investigate the system operation to determine in which position the valve should be left. Notify the appropriate personnel (supervisor, GSO, planning engineer) to validate any valve position change.
- ii.) Log that change on the Valve Maintenance Record along with the reason for the change. Redline local diagrams as needed.
- iii.)For any changes required on an Operating Diagram or Operating Map, submit revisions to the GT&D Principal Mapper, per the requirements of S4460, Attachment 1.

Upon completion of maintenance on a valve, the maintenance supervisor must:

- a. Critically review *each* "Valve Maintenance Record" to ensure that it is accurate and complete. Return the "Valve Maintenance Record" to the person that performed the maintenance to correct errors and omissions.
- b. During the review required above, check to see if any erasures, obliterations, or other document changes have been made.
 - Write "Valve Maintenance Record" information in permanent ink with no white-outs.
 - Review the "Valve Maintenance Record" with the person that performed the maintenance to ensure compliance with these requirements.
 - Enter your "LAN ID" and initial and date the "REVIEWED DATE" field for each new valve maintenance entry to indicate that the information has been reviewed and is correct.



VALVE MAINTENANCE RECORD FORM

(make all entries in permanent ink)

F4430-04-1 Rev 1/09

DIVISION		DISTR	ICT		_ VALVE NO		
LOCATION (SKETCH ON BACK IF RE	QUIRED)				 _ SAP WM NO		
LINE/STATION NAME					 TRANSMISSION	☐ EMERGE	NCY OTHER
DISTRICT					☐ CRITICAL MAIN		
			VAL	/E DATA			
SIZEMAKE/MODEL		TYPE	PRESS Ball Plug Gate	RATING	_SERIAL NO	USE	MLV BTU Zone Station etc.
RECOMMENDED LUBRICANT/SEALA			LUBE/INSPECT FREQ		Gearbox Breather (Bettis	i) Installed? 🗌	YES ONO NA
RECOMMENDED STEM PACKING MA	ATERIAL	-	Brand/Type or NA		_ High-Head Extension Ve	nt Installed? 🗆	YES □ NO □ NA
ACTUATOR TYPE				COMMENTS			
Manual Lever Expose	d Geanng (no gear	box) Enclosed	Gearing* Power Actuated				
* Manual gearbox filled with oil?	YES Drained?	☐ YES					
[□NO	□ NO					

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VALVE MAINTENANCE RECORD FORM	Line / Station Name	.	F4430-04-1
(make all entries in permanent ink)	Valve Number		Rev 1/09

SERVICE HISTORY (see notes)

DATE	INITIAL	VERIFY VALVE NUMBER	INSPECT Y/N	LUBE (if req d)	OPERATE Y/N	VALVE POSITION	REPAIRS REQUIRED (If any)	ACTION TAKEN (If required)	REPAIRED DATE	REVIEWED DATE
	LAN ID	NUMBER Y/N	Y/N	Y/N or N/A	Y/N	As Found As Left	(- · · · · · · · · · · · · · · · · · ·	()	INITIAL - LAN ID	INITIAL – LAN ID
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NOTES 1) Use Y/N for yes/no to indicate item performed and completed 2) "LUBE" pertains to lubrication of the ball or plug 3) "OPERATE" means to partially operate as a minimum

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