		Inspection	Governing		
Equipment	Service Type	Frequency	Document	Form(s)	Comments

Refer to the "Gas Transmission Maintenance Roadmap" for additional information and guidance.

Actuators, Valve

	Pneumatic piston	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Stroke valve: examine for leaks and mechanical condition; if hydraulic manual override, replace fluid every 10 years
	Pneumatic motor	TBD/annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Refill lubricator based on usage; stroke valve: examine for leaks and mechanical condition
	Vane-type (hydraulic)	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Stroke valve and examine for mechanical condition; check oil level; every 10 years, replace hydraulic fluid
	Electrical motor	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Stroke valve: examine for mechanical condition
	Electro-hydraulic	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Stroke valve and examine for mechanical condition; check oil level; every 10 years, replace hydraulic fluid
Batteries Chromatographs, Compressors, gas		Various	G14293 WP4300-17	See WP4300-17	Refer to Guideline G14293

Page 1 of 7

Equipment	Service Type	Inspection Frequency	Governing Document	Form(s)	Comments
<u></u>	Reciprocating compressor	Periodically	 		See manufacturer's literature
	Centrifugal compressor	Periodically			See manufacturer's literature
	Electric motor driver	Periodically			See manufacturer's literature See manufacturer's
·	Gas turbine driver	Periodically			literature See manufacturer's
	Reciprocating engine driver	Periodically			literature See manufacturer's
	Variable frequency driver	Periodically			literature See manufacturer's
Control Equipmer Control philosoph Controllers	· ·	Periodically			literature Reference document
	Charles and H	. "	1415 4 400 00	Gas Facilities Station Maintenance Report	
	Electronic controllers	Annually	WP4430-02	F4430-02-2 Gas Facilities Station Maintenance Report	
	Pneumatic controllers (including Becke	Annually	WP4430-02	F4430-02-2 Dehydration Station	Alignment check
Dehydrators		Monthly	WP4430-02	Inspection Report (Form 62-3085a/b)	Refer to WP4430-02 Frequency of draining
Drips, Pipeline Electrical Power E	Fauinment	Periodically	WP4430-02	Pipeline Patrol and Work Report (Form 62-4648)	depends on historical liquid volume experienced at each location.
Licourda i Ower ç					See manufacturer's literature, inspecting and
	Switchgear and switchboards	Periodically			testing required.
	Panel boards	Periodically			See manufacturer's literature, inspecting and testing required.

Page 2 of 7

					5.55
Equipment	Service Type	Inspection Frequency	Governing Document	Form(s)	Comments
	Motor control centers and starters	Periodically			See manufacturer's literature, inspecting and testing required.
	Power cables	Periodically			See manufacturer's literature, inspecting and testing required.
	Variable frequency drives	Periodically			See manufacturer's literature, inspecting and testing required.
	Uninterruptible power supplies	Periodically			See manufacturer's literature, inspecting and testing required. See manufacturer's literature, inspecting and
	DC power equipment Standby generators and P units	Periodically			testing required.
	Generator	Periodically			See manufacturer's literature, inspecting and testing required. See manufacturer's
	Driver Transformers	Periodically			literature, inspecting and testing required. See manufacturer's literature, inspecting and testing required.
	Transformers	Periodically .			See manufacturer's
Emergency Shutdo	wn Systems (ESD)	Annually		Gas Facilities Station	literature, maintenance and testing are Code mandated.
Filters, Strainers, ar	nd Scrubbers, gas	Annually	WP4430-03	Maintenance Report F4430-02-2	Differential check
Fire Protection Syst	tems/Equipment	Periodically	WP4430-02		See Attachment 6 to WP4430-02.

Page 3 of 7

Equipment	Sarvice Type		Inspection Frequency	Coveraing Document	Form(s)	©omments -
Gas Coolers			Periodically			See manufacturer's literature. See manufacturer's
Gas Detectors			Annually			literature, maintenance and performance testing are Code mandated.
Gas Saver Circuit			Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	GSC is used to minimize bleed gas at valve positioner. Check operation; calibrate as required.
Gas Supply Racks	i		Aillidaily	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	canonate as required.
	Dehydrators		Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2 Gas Facilities Station Maintenance Report	
	Filters		Annually	WP4430-02	F4430-02-2	Class A Inspection -
	Regulators		Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Annually; Class B Inspection for cause. Class A Inspection -
	. Reliefs		Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Annually; Class B Inspection for cause.
Meters, Operation	al & Fiscal					
	Orifice		Various	WP4300-07		
	Ultrasonic		Various	WP4300-06		
	Turbine		Various	WP4300-04		
	Flow computer	Mercor EC				
	Mercury	AMR Flow	Various	S4300		
	Total Flow	Computer	Various	WP4300-03	Gas Facilities Station	
Positioners (pneu	matic / I/P)		Annually	WP4430-02	Maintenance Report F4430-02-2	Stroke valve: check calibration (3-15#)

Page 4 of 7

		Inspection	Governing		
Equipment	Service Type	Frequency	Document	Form(s)	Comments
Pressure Recor	ders	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	3-point check - 0, mid-trave
		·		Gas Facilities Station Maintenance Report	3-point check - 0, mid-trave or normal operating
Pressure Transo	ducers/Transmitters	Annually	WP4430-02	F4430-02-2	pressure, full.
J	Self-contained (e.g., HPRs)				
	Spring / weight Pilot-operated	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic Annually Class B for cause.
	Boot / diaphragm (Mooney, 399,	Annually - class A up to 4 years - class		District Regulator Station Maintenance	For a new regulator, interna inspection yearly until a maximum of 4 year
	Flexflo, etc.)	В	WP4430-03	Record 62-6321	frequency is justified.
~	Globe (Fisher 1098, Rockwell 441, etc.) Controller-operated 1/4 - turn valve	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic annually Class B for cause.
	Ball (Grove B-5, etc.)	Annually. Also, see standby/frequency-used regulator below for other requirements. Annually. Also, see standby/frequency-	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic annually Class B for cause.
	Plug (Rockwell, etc.)	used regulator below for other requirements.	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic annually Class B for cause.
	V-notch ball	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic annually Class B for cause.

Page 5 of 7

Equipment	Service Type		Inspection Frequency	Governing Document	Form(s)	Comments
	Linear (Fisher, Masoneilan, Valtek.etc.)	Globe	Annually	WP4430-02	Gas Facilities Station Maintenance Report F4430-02-2	Class A diagnostic annually;
	,		· ,		District's	
	Standby regulator	1/4 turn ball			Week/Monthly	
	and monitor	& plug	Monthly	WP4430-04	Checklist	Inspect and partially operate
			ŕ		District's	Inspect, partially operate,
	Standby regulator				Week/Monthly	service, and lubricate (if
	and monitor	All types	Biannually	WP4430-04	Checklist	required)
					District's	
	Frequently used		As often as every 2		Week/Monthly	
	regulator	Plug	weeks	WP4430-04	Checklist	Lubricate and inspect
	F		A 0		District's	
	Frequently used regulator	Bail	As often as every 2 weeks	WP4430-04	Week/Monthly Checklist	Lubricate and inspect
	regulator	Dali	weeks	VVP 44 30-04	Gas Facilities Station	Lubilicate and inspect
					Maintenance Report	Maintenance, testing, and
Relief Devices			Annually	WP4430-03	F4430-02-2	capacity review required
		•			Gas Facilities Station Maintenance Report	Clean, inspect power supply
SCADA RTUs			Annually	WP4430-02	F4430-02-2	/ battery
Separators, gas			Annually	WP4430-02		See WP4430-02.
Valves (Manual)				*** **** *=		
, ,					Valve Maint Record	Inspect, service, lubricate (if
	Isolation and block	Plug	Annually	WP4430-04	F4430-04-1	required), and operate.
					Valve Maint Record	Inspect, service, lubricate (if
	Isolation and block	Ball	Annually	WP4430-04	F4430-04-1	required), and operate.
					Valve Maint Record	Inspect, service, and
	Isolation and block	Gate	Annually	WP4430-04	F4430-04-1	operate.
Valves (Power-actu	ıated)					
			Recommend			
			biannually;		Valve Maint Record	Inspect, service, lubricate (if
	Isolation and block	All types	minimum annually	WP4430-04	F4430-04-1	required), and operate.
					Gas Facilities Station Maintenance Report	
	Security valves (aut	to_shutoff)	Annually	WP4430-03	F4430-02-2	

Page 6 of 7

Station Inspection Schedule

WP4430-02 Attachment 2 9/08

Équipment	Service Type	Inspection Frequency	Governing Document	Form(s)	Comments
Vaults		Annually	CGT 4292	Vault Inspection Record 75-300 (9/75)	Containing regulating / limiting equipment and >200 cubic feet.

Page 7 of 7