Review of TD-4800 S Table 1								
Document	Identification	O&M	Condition Evaluation	Corrective Maintenance	Post Evaluation	SED RAU Comments	Reviewed	
Bulletin Number: 187 Rev.1, FOR IMMEDIATE RELEASE Date: 11/06/06, Gas Information Bulletin, Title: Gas Transmission Pipelines with Elevated 3rd Party Threats	X	X	X	X	X	Missing – The bulletin states, "This revised Bulletin cancels and supersedes         GIB 187, Pipelines with Elevated 3rd         Party Threats, dated 9/28/04.         Purpose         The purpose of this Gas Information         Bulletin is to ensure a consistent         process will be used for identifying,         assessing, and documenting actions         taken on pipeline locations identified         with elevated third party threat."         This bulletin has specific tasks for the         Risk Management Team.	X	
SCM-2106S w/att. 1 – Rev. 0, 3/13/2012 "Material Problem Reporting Standard"	X	X	×	X	x	Missing - PG&E Standard "Material Problem Reporting" is very Important and missing from this Table. Material Problem reports are used to report problems in some of the documents below.	X	
SCM-2106P-01 w/att. 1 &2 – Rev. 0, 3/13/2012 "Material Problem Report Procedure"	X	X	x	X	x	Missing - PG&E Standard "Material Problem Reporting" is very Important and missing from this Table. Attachment 2 contains a "Human Safety and Major System Reliability" matrix to evaluate the risks from the failed components. It's not clear how the Material Problem Reports get to Integrity Management engineers.	x	
D-S0353 / S4112 – effective date 5/2000. Review date 5/2005 "Physical Inspection of Pipelines, Mains and Services"	X	X	X	×	?	Missing – Reports go to Facility Owners. How does information get to Integrity Management?	x	

TD-4002P-02 Rev. 0,		X		Х		IM Engineers Need This – Not sure that	x
12/14/2011 "General						gas asset changes, due to repairs and	
Work Plan and Execution						capital projects, get to Integrity	
for Gas Assets"						Management. Integrity Management	
						engineers need to be in on meetings	
						and aware of the modifications being	
						made to the system. As long as	
						shanges and repairs are made like for	
						thanges and repairs are made like-tor-	
						like with original specs, there will be no	
						problem for Integrity Management.	
						Also, work orders usually include	
						component history (changes made to	
						the component over time). Note: Risk	
						Management Procedure – Gas	
						Transmission Integrity Management	
						Program RMP-17 is referenced in this	
						procedure and it rays that the Integrity	
						procedure and it says that the integrity	
						Management and Technical Support	
						Director is responsible for the	
						maintenance program requirements	
TD-4100P-05, Rev. 1,		Х	Х	Х	х	IM Engineers Need This – Important	x
9/15/2012 "Selection of						information on evaluating steel gas	
Steel Pipeline Repair						transmission and distribution pipe	
Methods"						defects per ASME B31 G and approved	
memous						sensis wetherde. Also instudes second	
						le entre en entre entre	
						keeping requirements.	
11004400 04 ((0	Y	L V	V	V C V			X
WP4100-04, "Gas	~	X	X	X – Corrective	X	Missing – "Reporting Detected Gas	
Overbuilds", Date	~	~	X	X – Corrective Action	X	Overbuilds- (1) The employee	
WP4100-04, "Gas Overbuilds", Date Issued/Updated: October		×	X	X – Corrective Action	X	Missing – "Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate	
VP4100-04, "Gas Overbuilds", Date Issued/Updated: October 2008		X	X	X – Corrective Action	X	Missing – "Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could	
WP4100-04, "Gas Overbuilds", Date Issued/Updated: October 2008		X	X	X – Corrective Action	X	Missing – Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or	
WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008		X	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to	
WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008		X	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to look indications (cos UD Standard	
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WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008		X	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution	
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WP4100-04, 'Gas Overbuilds", Date Issued/Updated: October 2008 463-3, "Effective Date:	X	*	Χ	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities").	X
463-3, "Effective Date: 5/1/83, "GAS PIPE	X	*	×	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities").	X
<ul> <li>WP4100-04, 'Gas</li> <li>Overbuilds", Date</li> <li>Issued/Updated: October</li> <li>2008</li> <li>463-3, "Effective Date:</li> <li>5/1/83, "GAS PIPE</li> <li>CROSSING OF STATE</li> </ul>	X	*	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities"). IM Engineers Need This – IM should be aware of these design requirements.	X
463-3, "Effective Date: 5/1/83, "GAS PIPE CROSSING OF STATE	X	*	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities"). IM Engineers Need This – IM should be aware of these design requirements.	X
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WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008 463-3, "Effective Date: 5/1/83, "GAS PIPE CROSSING OF STATE HIGHWAYS AND FREEWAYS"	X	×	X	X – Corrective Action	X	Missing — Reporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities"). IM Engineers Need This – IM should be aware of these design requirements.	X
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WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008 463-3, "Effective Date: 5/1/83, "GAS PIPE CROSSING OF STATE HIGHWAYS AND FREEWAYS" TD-4110B-004, Rev. 1,	X	X	X	X - Corrective Action	X	Missing – Tkeporting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities"). IM Engineers Need This – IM should be aware of these design requirements. Missing – The bulletin states, "The new	X
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WP4100-04, 'Gas Overbuilds'', Date Issued/Updated: October 2008 463-3, "Effective Date: 5/1/83, "GAS PIPE CROSSING OF STATE HIGHWAYS AND FREEWAYS" TD-41108-004, Rev. 1, 3/21/2011 "New Gas Leak Forms and Instructions"	X X	X	X	Action		Missing – The porting Detected Gas Overbuilds- (1) The employee immediately reports to the appropriate supervisor any conditions that could result in imminent danger to life or property, including but not limited to leak indications (see UO Standard S4110 "Leak Survey and Repair of Gas Transmission and Distribution Facilities"). IM Engineers Need This – IM should be aware of these design requirements. Missing – The bulletin states, "The new forms, the changes to IGIS and the implementation of NLIS will increase compliance with required field data collection. They will also provide more complete information that can be used in making strategic system decisions. The implementation of NLIS will now allow all pipe inspections to be placed in a database, thus improving access to the data." Note – The 4 attachments are missing. Also, I don't see this bulletin incorporated into TD 4110P-111 yet. The bulletin says TD 4110P-11 is under development.	X X

TD-4110B-05, Rev. 0, dated 12/23/2010, including Attachment 1, "Reporting Grade 1 Leaks on Mechanical Fittings"	X	X	X		<ul> <li>Missing – The bulletin states, <i>"Reporting Process</i></li> <li>It is mandatory that all Grade 1 leaks on mechanical fittings be reported with a Material Problem Report (MPR) in addition to the A-form. Supervisors are responsible for ensuring that this process is followed.</li> <li>1) Complete a Material Problem Report (MPR). This may be completed and submitted online at http://mpr/mpr</li> <li>2) Follow the attached instructions for filling out and submitting the MPR.</li> <li>There is additional information above and beyond what is normally required of an MPR for a fitting failure. Please ensure the attachment is reviewed and as much information as possible is captured.</li> <li>3) Label or tag the fitting with the MPR number and the leak number, and place it in a bag or box.</li> <li>4) Send the failed mechanical fitting through company mail to 3400 Crow Canyon Road, San Ramon Attention: MPR Material for Shed"</li> <li>Also, I don't see this bulletin incorporated into TD 4110P-11 yet. The bulletin says TD 4110P-11 is under development.</li> </ul>	X
TD-4110B-07, Rev. 2, 10/21/2011 "Leak Survey Method Requirements"	x	X	X		Missing – This bulletin requires those people performing gas leak surveys to produce auditable records which IM will need.	X
TD-4436P-04, Rev. 1, 10/19/2012 "CRM – Management of Pipeline Changes Procedure"	x	X	X		IM Engineers Need This – IM Engineers do not appear to be in the loop when physical changes are being made to the gas pipeline system.	X
TD-4436P-05, Rev. 1, 10/19/2012 "CRM – Evaluating Operational Experiences Procedure"	x	X	X	X – Corrective Action	<ul> <li>Missing – This procedure includes evaluating Abnormal Operating Conditions (AOC) which may:</li> <li>Indicate a condition exceeding design limits</li> <li>Result in hazards to persons, property, or the environment</li> <li>Monitoring unusual operating or maintenance conditions is part of Continuing Surveillance (49CFR192.613)</li> </ul>	X

S 4411, "Inspection of Underground Gas Holders", Revision 1.1, Effective Date: 1 August 1998, Review Date: 1 August 2000	X	X	X	X	Missing – Inspecting and recording the condition of high pressure underground gas holders and associated valves and equipment. Monthly, annually and 10 year inspections are required. The condition of this equipment is important to Continuing Surveillance and Integrity Management engineers.	X
S5000, Effective Date 04/2002, Review Date 04/2007, "Gas Distribution Emergency Shutdown Zones."	X				<ul> <li>IM Engineers Need This – It would seem that IM may need to be part of the approval process of these zones.</li> <li>1. Zones shall not be greater than 500 services in all locations having buildings that are predominantly four stories or higher and/or are wall-to-wall paved in major, metropolitan downtown business and commercial areas.</li> <li>2. In all other locations, zones shall not be greater than 40,000 services. If the shutdown of a downstream system or systems, including a high-pressure system, the number of services of all affected zones or systems shall be included in the total count. A rib and associated taps running through a zone may be maintained so that an upstream system does not affect the shutdown of a downstream system.</li> <li>3. In localized areas that have an extreme likelihood or history of natural disasters (e.g., faults, landslides, liquefaction, wildfire potential, etc.), additional zones may be established.</li> <li>4. Natural physical boundaries, such as rivers, mountains, and highways, shall be tablishing zone boundaries.</li> </ul>	
TD-4430B-001, 8/26/10, Gas Information Bulletin, "Establishing Alternate Means of Control (AMC) for Inoperable Valves"	X	X	X	X	Missing - When inoperable valves are found they should be reported to IM engineers to be logged and tracked. This is important data for Risk Assessment. Also, the Bulletin says, "This bulletin will be incorporated in the next revision of WP4430-04. Upon incorporation with the procedure, this bulletin will be canceled." WP4430-04 is dated March 2009 so I know this hasn't been updated.	

TD-4430B-004, Publication Date: 04/18/2012 Rev: 0 Gas Transmission Station Regulator and Monitor Set Points	X	X	X	X		IM Engineers Need This - Gas Control sends a confirming email documenting the set point changes to the Manager of Station Engineering, the Manager of Pipeline Engineering, the Manager of GSP, the <b>Manager of Transmission</b> <b>Integrity Management</b> , the Facility/Pipeline Engineer, the local field supervisor, and to <b>Regulation and OPP</b> <b>Device Settings</b> (a special email address set up for this purpose which is monitored by the Manager of Station Engineering). IM needs to know what the setpoints are. What happens when set points are found to have been too high? IM needs to know.	X
TD-9500P-16, Rev. 1, 6/1/2012, "Deactivation and/or Retirement of Underground Gas Facilities"	X	X				IM Engineers Need This – It would seem that IM should have a say in approving these methods and also know what infrastructure is being deactivated/abandoned. Maybe the find this from reviewing as-built drawings. Not sure.	X
TD-1465S, Rev. 0, Publication Date: 07/15/2011, " Event Reporting for Gas and Electric Transmission and Distribution"	X	X	X	X – Corrective Action	X	Missing - Compliance with this standard ensures that records are prepared properly and consistently to document and communicate major equipment failures, active human failures, and external contacts that affect Company gas and electric facilities. Superintendents and managers within the ED, E&O, and ISTS lines of business are responsible for implementing this standard. Its effectiveness may be judged by the extent these managers and superintendents are able to identify trends and recommend actions that improve safety and reliable delivery of energy to customers.	X
TD-1465P-02, Rev. 0, Publication Date: 07/15/2011, "Gas Event Reporting"	X	X	X	X – Corrective Action	X	Missing – This procedure contains event reporting criteria for the above TD- 14655. It also contains criteria for what is a near-hit event. The procedure describes how to fill out and file the reports.	X
TD-4110P-20, Rev. 0, Publication Date: 08/16/2011, "Leak Survey of Inaccessible Pipelines Under Waterways"	X	X	X			Missing – The procedure contains instructions for leak surveying pipelines under water. If a leak is detected the person is instructed to go to Procedure TD-4110P-09, "Leak Grading and Response", which is further down in this table.	X
TD-4125P-05, Rev. 0, Publication Date: 03/31/2010, "Recording Pressures in Distribution Gas Systems"	x	X	X			Missing – This procedure contains instructions for recording and maintaining records for the pressures in the gas distribution system, including over-pressurizations.	x

TD-4125P-04, Publication Date: 03/31/2010 Rev: 0, "Revising the MAOP, MOP, and FDP of Pipelines Operating at Greater Than 60 PSIG"		X			Note – Does not incorporate Bulletin TD- 4125B-001 yet. The bulletin has a later date than the procedure.	X
TD-4413S, Rev. 0, Publication Date: 08/11/2010, "Gas Event Reporting Requirements" Including TD-4413B-001	X	X	X		Missing - This utility standard is the governing document for reporting gas events to the CPUC and DOT occurring within Pacific Gas and Electric Company (Company) gas systems. It establishes criteria, requirements, and procedures for reporting and documenting gas events, including safety-related events.	X
TD-4413P-01, Rev. 0, Publication Date: 08/11/10, "Procedure for Reportable Gas Incidents"	X	X	X		Missing – Procedure for reporting gas incidents described in TD-4413S, Rev.0, above.	X
TD-4413P-02, Rev. 0, Publication Date: 08/11/2010, "Procedure for Reporting Safety-Related Conditions and Low- Pressure System Problems"	X	X	X	X – Corrective Action	Missing – Procedure for reporting safety-related and low pressure gas incidents described in TD-4413S, Rev.0, above.	X
TD-4413P-03, Rev. 0, Publication Date: 08/11/2010, "Annual and Quarterly Reporting Requirements for Gas Incidents, Events, and Activities" Include TD- 4413B-01	X	X	X	x	Missing - This procedure establishes a uniform system for submitting to DOT and the CPUC, required Pacific Gas and Electric Company (the Company) quarterly and annual reports for gas incidents and activities.	x
TD-4550P-20, Rev. 0, Publication Date: 09/14/2011, "Annual Gas Well Survey Procedures"	X	X	X	X	Missing – Inspection, repair and reporting of leaks in gas storage wells.	X
4430 Revision: 1.1, Effective Date, 01 Oct 1999, Review Date, 01 Oct 2001, " CGT GAS FACILITIES REQUIREMENTS"	x	x	X	x	Missing – Standard discusses inspection requirements and says, "The record of completed maintenance of station equipment shall be recorded and kept in accordance with CGT Standard 4432, "Station Inspection, Testing, and Maintenance Procedures." IM engineers need to know failure modes and frequency of failures and problems.	x
SP 463-4, Effective Date, 5/15/83, "Cover and Clearance Requirements for Transmission Lines, Mains and Service Lines."	X	X	X	X	IM Engineers Need This – Contains clearance requirements separating gas lines from underground electric utilities. IM needs to be aware of the clearances and approve them. Electric transmission lines can induce current in gas lines which can cause corrosion.	X

TD-4436P-06, Rev 1, Publication Date: 10/19/2012, "CRM—Gas Control Training Program"		X			NOTE: It would be good for IM engineers to attend the Gas Control Training Program, Gas Systems Training and any other gas operations training programs. These training programs provide valuable insight to engineers on the operation of the gas system and its equipment, especially safety-related equipment and how the equipment works together. It also provides training to the engineers on abnormal and emergency operating conditions and modes. The engineers develop a sense of ownership.	X
TD-44365, Rev. 1, Publication Date: 10/19/2012, "Gas System Operations Control Room Management Standard"	X	X	X	X – Corrective Action	Missing – Control Room Records must be kept for 7 years. Records include any abnormal or emergency conditions experienced.	X
TD-4436P-01, Rev. 1, Publication Date: 10/19/2012, "CRM – Information Management Procedure"		X			Missing – Not really sure this procedure is that useful to IM but it does say, "The secondary audience for this document includes personnel in gas maintenance and construction (M&C), gas engineering, and gas control strategy and support (SCADA) who have responsibilities described in this procedure."	X
TD-9550S, Rev. 0, 05/09/2012, "Customized Gas Engineering Design, Construction, and Project Requirements", including TD-9550P-01 and 02	X	X	X	X – Corrective Action	IM Engineers Need This – IM engineers must be cognizant of design changes. IM Engineers need to be in the loop when physical changes are being made to the gas pipeline system. Not clear if this is happening. How will the changes affect the IM Risk Assessment? TD- 9550P-02 says, <b>"Safety</b> Following this procedure as written minimizes the risk of a design integrity issues or construction hazards to personnel, the public, or equipment. Design integrity issues can be minimized or eliminated through proper use of government laws and regulations, as well as industry and Company standards. Personnel must keep public and performing the steps in this procedure."	X
EG4124, Emergency Pre- tested Transmission Pipe, Rev. 2, Effective Date , 01 Jan. 1999, Review Date, 01 Jan. 2001				X	IM Engineers Need This - Does IM need to know when pipe is being replaced? How is IM notified?	X

						1
G14136, "CGT Emergency				Х	IM Engineers Need This - Does IM need	X
Sleeves Program",					to know when sleeves are being	
Effective Date: 8-05.					replaced or added? How is IM notified?	
Paulaur Datas 8 10						
Neview Date, 6-10.						
WP4050-01, "Entry,	X	X	Х	Х	Missing - IM needs to know when	X
Inspections, Response to					security is becoming a problem	
Threats, and Security						
Maintenance Pequirements						
Maintenance Requirements						
for Gas Transmission						
Facilities", Effective Date:						
November 2007						
CAADD "Con Deserver Dalief	V	V	V	V	Adjustice All defending which denotes	V
54433, Gas Pressure Keller	×	×	~	~	Wissing – All defective relief devices	^
Devices - Responsibility for					need to be reported to IM. This is	
Annual Inspection and					important data needed to conduct risk	
Capacity Verification", Rev.					assessments. It needs to be logged and	
1 Effective Date: 3/1/98					tracked. The procedure states "Any	
1, Ellective Date: 3/1/36,					Process of the procedure states, Any	
Review Date: Mar 1, 2000					relief device found to be defective shall	
					be replaced. If the relief device is found	
					to have insufficient capacity:	
					a the sharth has an a fact of an	
					a, it shall be replaced or	
					b. An additional device shall be	
					installed.	
					Data about the pressure relief devices	
					installed, such as manufacturer, model,	
					inlet, and outlet size, orifice size, and	
					cat pressure shall be verified at the time	
					set pressure shan be vermed at the time	
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					of inspection."	
					of inspection."	
139, "Maintaining Air Tank	X	×	x	X	of inspection." Missing – Rates of defective relief	×
139, "Maintaining Air Tank Reliefs" Rey 1, 9/20/05	X	×	×	X	of inspection." Missing – Rates of defective relief values he tracked hy IM engineers?	X
139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05	X	X	X	X	of inspection." Missing – Rates of defective relief valves be tracked by IM engineers?	X
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139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05 WP4050-02, "Obtaining	X	X	X	X	of inspection." Missing – Rates of defective relief valves be tracked by IM engineers? Question – How do you decide if a	x
139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05 WP4050-02, "Obtaining and Controlling Access to	X	X	×	X	of inspection." Missing – Rates of defective relief valves be tracked by IM engineers? Question – How do you decide if a contractor can be trusted to have	X
139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05 WP4050-02, "Obtaining and Controlling Access to Gas Transmission	X	X	X	X	of inspection." Missing – Rates of defective relief valves be tracked by IM engineers? Question – How do you decide if a contractor can be trusted to have unescorted access? What is your	x
139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05 WP4050-02, "Obtaining and Controlling Access to Gas Transmission Eacilitien", New 2007	X	x	X	x	of inspection." Missing – Rates of defective relief valves be tracked by IM engineers? Question – How do you decide if a contractor can be trusted to have unescorted access? What is your creeping criteria?	x
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139, "Maintaining Air Tank Reliefs", Rev 1, 9/20/05 WP4050-02, "Obtaining and Controlling Access to Gas Transmission Facilities", Nov. 2007 RP 4460.1, Rev. 1, Eff. Date 1/1/98, Review Date 1/1/2000, "Recommended Practice Subject: Operating Maps and Operating Diagrams, Preparation of" 4431 Revision: 2, "OPERATION AND MAINTENANCE INSTRUCTIONS REQUIREMENTS FOR MAJOR GAS FACILITIES", Effective Date:1/10/01 Work Procedure WP4300- 11, ISSUING DATE	X	X X X X X	X		of inspection." Missing – Rates of defective relief valves be tracked by IM engineers? Question – How do you decide if a contractor can be trusted to have unescorted access? What is your screening criteria? IM Engineers Need This - No mention of how the updated drawings are distributed. Do IM engineers have on- line access? IM Engineers Need This – Design changes - On the flow chart for design changes, I see coordination with Pipeline Engineering but not Integrity Management Engineers. IM Engineers included in Pipeline Engineering? Missing – The procedure mentions internal pipe inspections but it doesn't	X X X X X
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Utility Work Procedure WP4300-07, "Orifice Metering System Maintenance for Gas Wells",: Date Issued/Updated: November 2007	X	X	X		Missing – The procedure includes relief valve testing and maintenance. Reports of valve malfunctions or failures should also be sent to IM engineers for tracking.	X
TD-4300P-05, Publication Date: 07/11/2012 Rev: 1, "Performance Check and Maintenance of Rotary Gas Meters > 1000 CFH"	X	X	X		Missing - I think this is one of the few times that I've seen instructions telling staff to input results of an inspection or needed maintenance into a computer (SAP or otherwise) where other people can access and act on it. "4.2 Enter all applicable rotary meters requiring maintenance in a facility maintenance master file using software such as the Gas FM ( <i>Gas FM is a scheduling tool for</i> <i>facility maintenance</i> ) application or SAP Work Management (WM) software." This needs to be a step in all procedures that address hardware operation, maintenance or failure issues.	X
Utility Procedure: TD-4413P- 01, Publication Date: 08/11/10 Rev: 0, "Procedure for Reportable Gas Incidents"	X	x	X	X	Missing – Section 4.2 says, "Whenever the gas T&D organization holds a full investigation or critique for a gas incident that involves work-procedure error, the system reliability and support organization must be included for determining the root cause and developing the corrective or preventative action plan." Does this include your Asset Management/ Risk/ IM engineers? The incident must also be reported to them.	X
WP4300-04, "Performance Checks and Maintenance of Turbine Gas Meters", January 2008	X	X	X	X	Missing – Where do you report valve failures? Similar to TD4300-05 above, the technician should be able to report meter failures on-line for the IM engineers to track and trend.	X
EMER-1011M, "Gas Emergency Response Plan."	×			x		
EMER-6010S, "Training and Exercising Gas Emergency Response Plan."				x		
H-70 "Pressure-Relief Devices."		x	X			
O-16, "Corrosion Control of Gas Facilities."		X	x	x		
RMI-04, "Gas Transmission Earthquake Plan and Response Procedure."	x	x	x			
RMI-04A, "Gas Transmission Rainfall Plan and Response Instruction."	X	X	X			

1			1					1
	RMI-04B, "Gas Distribution	Х	X	Х				
	Farthquake Plan and							
	Designation from and							
	Response Procedure."							
ł	PMR OF "Gas Transmission			v			Commont - Information poods to be	
	RIVIF*00, Gas Halishission			^			comment - mormation needs to be	
	Integrity Management						pushed to IM Engineers by O&M and	
	Program "						Engineering via an information	
	FIOGLAIII.						chgineering via an information	
							management system rather than have	
							IM Engineers search for it	
							in anonio a con on ion in	
	RMP-15. "Gas Distribution			х			Comment – Information needs to be	
	Integrity Management						pushed to IM Engineers by O&M and	
	Program."						Engineering via an information	
	0						management system rather than have	
							management system rather than have	
							IM Engineers search for it.	
	TD-4020S, "Gas Operations	X	X	Х				
	Corrective Action							
	D 8							
	Program.							
ł	TD 40E06 "Security		v				Commant Alas anod to notify Assat	
	1D-40505, Security		^				Comment – Also need to notify Asset	X
	Standard for Gas						Management/ Risk Assessment of any	
	Operations "						changes to the procedure	
	operations.						changes to the procedure.	
	S4110. "Leak Survey and		X	x	х		I don't see Gas Distribution Bulletins	x
				<u>^</u>				
	Repair of Gas Transmission						250, 254 and 271 incorporated into	
	and Distribution Facilities."						S4110 yet. Do IM engineers run the	
	Effective Data 10/2005						Lash Daufamaaaa Cumurani Danama	
	Effective Date 10/2005						Leak Performance Summary Reports	
	Review Date 10/2010						and Leak Activity Reports from IGIS?	
							There is no mention of IM in this	
							mere is no mendon of infinitians	
							procedure. What specifically, do the	
							Distribution IM engineers look at to	
							evaluate risks? Where is it	
							documented?	
	TD-4110P-06, "Field	х	X				I don't see Gas Distribution Bulletin	Х
	Inspection of Gas						271 Poy 2 "Look Survey and Field	
	inspection of das						271, Nev. 2, Leak Survey and Field	
	Facilities."						Inspections Stamp" incorporated into	
ļ							S4110P-06 vet. Not sure what records	
ļ								
ļ							IIVI uses. Not mentioned in the	
ļ							procedure. This procedure references	
ļ							TD 41100 04 "Look Summer Desert	
ļ							TD-4110P-04, Leak Survey Procedures	
ļ							for CGI". I don't see it in the PG&E	
ļ							procedures	
ļ							processies.	
ļ	TD-4110P-09. "Leak	х	X	х			It's not clear from the procedure where	X
ļ								
ļ	Grading and Response."						to find the records that IM will be	
ļ							reviewing.	
ļ								
ļ	TD-4110P-12, Date:	Х	X	Х	Х		Missing - This document describes the	X
ļ	12/15/2010 Boy: 1						procedures to follow when an operator	
ļ	12/13/2010 NEV. 1,						procodures to ronow when an operator-	
ļ	"Subsurface Leak Grading"						qualified leak survey person or a	
ļ							competent first responder detects a	
ļ								
ļ							subsurface leak indication.	
	TD-4110P-12 "Outside Cas	v	v	v			Missing - Do the PCAs for gas looks	V
ļ	10-4110F-15, Outside das	^	^	^			missing - Do the NCAS for gas leaks go	^
ļ	Leak and Odor						to the IM engineers? They should be	
ļ	Investigation" Publication						tracked and trended	
ļ	micougation , rubication						o uscel and it ended.	
ļ	Date: 11/10/2010 Rev: 0							
		1	1	1		1		1
J								

WP4330-06, Date	Х	X	Х	Х	Missing – The IM engineers should	X
Issued/Updated: March					know where sulfur is accumulating	
2008, Title: Sulfur Safety					since it can form sulfuric acid and	
Procedures for Natural Gas					corrode the pipe.	
TD-4125S, "Maximum				х		
Allowable Operating						
Pressure Requirements for						
Gas Distribution Systems						
Gas Distribution Systems						
and transmission and						
Gathering Lines."						
TD-4125P-02, Rev. 0,		X			Missing – For transmission lines,	X
"Establishment and					changes to MAOP are documented in	
Documentation of MAOPs,					these files	
MOPs, and FDPs for						
Pipelines Operating at						
Greater Than 60 PSIG".						
Publication Date:						
03/31/2010						
03/31/2010						
TD-4125P-03 "Revising the				v		
MAOD of Displices				^		
IVIAUP of Pipelines						
Operating at 60 psig or						
Less."						
TD-4125P-04, "Revising the				X		
MOP, MAOP, of Pipelines						
Operating at Greater than						
60 psig."						
TD-4125P-06, "Revising	X	Х	Х	Х	Missing - IM Engineers Need This - The	Х
Setpoints of Overpressure					procedure says,	
Protection Devices"						
					"3. Records	
					All completed forms requesting OPP	
					device setucint revision (Form TD-	
					4125B OC 501) must semain an file for	
					4125P-06-F01) must remain on file for	
					the life of the facilities at the wainut	
					Creek Records Section. These forms	
					must be kept in the appropriate station	
					files."	
					Also includes field verification and	
					annual test results. IM Engineers need	
					test failures.	
TD-4127S, "Class Location	x	Х	х	х		
Determination and						
Compliance						
Requirements."						
TD-4127P-01, "Observing.	x	x	x	x		
Reporting and Evaluating						
New Construction and						
Conducting Class Loostics						
Conducting Class Location						
studies.						
TD 41270 02 *C						
Custom wide Classics in				I V		
A DESCRIPTION AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION AND A DESCRIPTION			X	X		
System-wide Class Location			X	X		
Review."			x	X		

S4412, "Prevent Damage to	X			Х		
Underground Facilities "						
onder Broond Factories						
TD-4412P-03, "Marking and		X				
Locating PG&E						
Underground Facilities."						
5						
WP4412-04, "Field Meets		x				
and Standby – Damage						
Provention "						
Fievention.						
TD-4412P-06 "Handling		x				
Evenuators Contractors						
Excavators, contractors,						
and the Public Working						
Unsafely Around Utility						
Facilities."						
TD-4412P-07, "Patrolling	x	х	х	х		
Pipelines and Mains."						
TD-4412P-09, "Gas Pipeline		х				
Markers "						
i i i i i i i i i i i i i i i i i i i						
TD 44208 003 Pov 0		~	v	v	Missing - This Pullatin changes the	v
10-4430B-002, Nev. 0,	^	^	^	^	wissing - this bulletin changes the	^
Publication Date:					method of testing Wohltors from	
03/04/2011, "Change in					increasing the set-point 5 psi ABOVE	
Transmission Station					MAOP to reducing the set-point BELOW	
Monitor Testing					the MAOP. This bulletin is newer than	
Procedure"					the TD-4430P-02 procedure below	
					am not sure that TD-4430P-02 has been	
					revised ust. The hulletin causeth-	
					revised yet. The pulletin says the	
					procedure should have been revised by	
					March of 2012.	
UTILITY WORK PROCEDURE	X	X	X	X	Missing – This procedure has to do with	X
WP4330-02,Effective Date:					removing fluids in the pipeline that	
March 2008, "Removal and					cause internal corrosion and inspecting	
Control of Liquids from					for internal corrosion. IM Engineers	
Pipelines and Maintenance					should be made aware of the results	
and Operation of						
and Operation of						
Associated Gas						
Conditioning Equipment"						

Standard 4241, Revision 1.1, Effective Date: 01 Oct 1999, Review Date: 01 Oct 2001, " Station Protection System Impairment Procedure"	X	X	X	X	Missing – The standard states, "Objective - The procedure lists the measures that must be taken whenever an impairment to a station protection system is planned or discovered. These systems provide protection (both manual and automatic) for a wide variety of station equipment and structures. Scope - The requirements apply to fire protection systems, gas detection systems, Emergency Shutdown (ESD) systems and unit/station shutdown and alarm systems in all CGT facilities. This standard does not apply to routine testing or routine maintenance of these systems." The standard states, "3.4. The Area Operating Specialist shall upon receipt review the completed Station Protection System Impairment Report. Completed reports shall be kept on file by the Area Operating Specialist for a minimum of one year from the impairment end date." This is emergency equipment. These types of problems need to be tracked and trended so that failure prone equipment can be replaced. This report should go to Risk Management engineers to be used in their Risk Assessments.	X
TD-4100P-14, 04/27/2012 Rev: 0, "Removing, Documenting, and Preserving Gas Transmission Pipe and Components"	x	x	x		IM Engineers Need This -This work procedure includes test records, videos, pictures, etc. of defective pipe that has been removed. IM engineers need this data.	Х
TD-4430P-02, "Gas Transmission Station Inspection, Testing, and Maintenance Procedures."		x			Does not incorporate the Bulletin 325 form or the changes from Bulletin TD- 4430B-002, addition of leak survey form.	X
WP4430-04, "Gas Valve Maintenance Requirements and Procedures."		X	X			
S4446, "Vault Inspection Procedure."		X	X			
S4540, "Gas Pressure Regulation Maintenance Requirements." Including WP4540-01	X	x	X	X	Comment - TD-4430B-002, Rev. 0, Publication Date: 03/04/2011, "Change in Transmission Station Monitor Testing Procedure" (above) does not allow testing of Monitor Valves above MAOP but WP4540-01 still requires MAOP +10%. Is this a conflict or is this situation different?	X

Utility Procedure: TD-4540P-	X	X	Х	Х		Procedure states, "K. For failed or	X
04, Effective: 1/1/2010,						problem equipment, fill out an online	
"Pilot-Operated Regulator						Material Problem Report as required by	
Station Maintenance						Utility Standard S2333, "Material	
(Outlet Pressures > 60						Problem Reporting (MPR)."	
psig)"							
1.07						However, \$2333 has been replaced with	
						SCM-2106S so 4540P needs to be	
						revised It's pot clear how the MPR's or	
						the valve maintenance cheet (if	
						applicable) make it to the IM engineers	
						in addition SCM 21065 is not in the	
						the addition Schweizedungen it is in the	
						Distribution procedures. It is in the	
						Distribution procedures.	
TD-4551S, "Station Critical	X	X					
Documentation."							
TD-6436S, "Gas and Electric			х				
Field Services and Dispatch							
and Scheduling Operating							
Practices."							
TD-6436P-12, "Handling	х						
Emergency Conditions							
Reported by Outside							
Agencies and Company							
Personnel."							
TD-6436P-27, "Gas Service			х				
Valve Inspection and							
Maintenance."							
WP4133-02, "Cathodic		x	х	х			
Protection Area							
Assessment/Resurvey							
Procedures for Gas							
Distribution."							
1	1	1	1	1	1	1	1

TD-4100P-10-JA06, "Clearance Checklist for Control Room Personnel" and TD- 4100P-10, Gas Clearance Procedures for Facilities Operating Over 60 PSIG"		X			This is not needed for the Continuing Surveillance Program but in reviewing the checklist, I noticed that there is no Job Safety Analysis (JSA). JSA's are needed to anticipate what could go wrong during the work and decide what steps will need to be taken in case the negative incident occurs. For example, a work step that results in an unanticipated loss of power. If it happens people need to know exactly what to do immediately: not spend hours figuring out what to do next. JSAs should be considered in Work Planning. Also no references to CAL/OSHA lock out tag out Title 8 requirements. I don't think these two procedures comply because they don't lock out equipment to prevent it from operating. Also, equipment is not de- energized (lifted leads, etc.) it's just turned off. Refer to Cal/OSHA Division 1, Chapter 4, Subchapter 7, Group 2, Article 7, Section 3314, "§3314. The Control of Hazardous Energy for the Cleaning, Repairing, Servicing, Setting- Up, and Adjusting Operations of Prime Movers, Machinery and Equipment, Including Lockout/Tagout.	X
TD-4100P-10-JA03, Publication Date: 07/11/2012, Rev: 0 "Placing Man-on-Line, Caution, and Information Tags"		X			Same Comment as for TD-4100P-10- JA06, "Clearance Checklist for Control Room Personnel" and TD-4100P-10, Gas Clearance Procedures for Facilities Operating Over 60 PSIG", on the line above. This document does not conform to OSHA clearance processes.	X
Utility Procedure: TD- 4550P-05, Publication Date: 06/13/2012 Rev: 1, "Procedure for Environmental Plans at Gas Transmission Facilities"	X	X	X		This may not be needed for Continuing Surveillance but it is definitely needed for your Risk Assessment Group. The procedure discusses inspections of GT facilities for hazardous substances. Some of these substances will be flammable and may be stored in quantities exceeding your permits. Obviously that would be hazardous to your GT facility. Right now it's not clear that anything would be reported to your Asset Management/Risk Assessment Unit.	X

ISSURD DEPARTMENT: Gas Engineering FFFECTIVE DATE: 5:06 UO SPENSION: Discriv Ge Trainworing REVEW DATE: 5:11 TTTLE: Proceeding for Reveiling Application Software from New Values and Advess that the see scanned for values been scanned for values before the code is leaded on the electrarius devices (REC): sci. 1. Never value code is leaded on the electrarius values before the code is leaded on the electrarius devices (REC): sci. 2. Never values before the code is leaded on the electrarius values before the code is leaded on the electrarius devices (REC): sci. 3. All code that employees values walth code is leaded on the electrarius devices (REC): sci. 4. Never (sci. Sci. 5. All code that exployees scanned for values before the code is leaded on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code is leaded on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code is leaded on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code is leaded on the scanned for values before the code is leaded on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code is leaded on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code on the electrarius devices (REC): sci. 5. All code that exployees scanned for values before the code on the electrarius devices (REC): sci. 5. All code that exployees scanned for values for the scanned for values	UO Guideline G14281,	Х		PROBLEM - There are no cyber	Х
Gas Engineering EFFECTIVE DATE: 5-06 UO 3PONDRI: bitestor - Gas Engineering REVIEW DATE: 5-11 TTLE: Freedware for Microprocessor-fisced Controls Software for Microprocessor-fisced Controls Con	ISSUING DEPARTMENT:			security precautions in this	
EFFECTIVE DATE: 5-06	Gas Engineering			procedure, such as:	
UO SARUSCR. Director - Gas inglementing BEVEM DATE: 5-11       1. Never direct programs on private fload hows, only use company fload drives, but use company fload drives that drives into company company fload drives, but use company fload drives, but use company fload drives, but use company fload drives, but drives into company company fload drives, but drives before the code is loaded on the ecompany winters. Starting devices into company company winters before the code is loaded on the ecompany winters before the code is loaded control.         UTUTY IROCEDURE WARQU, Date: - Exploration on Gas facilities       X         V       Most - Idon't as any gas exceptive control, control, control, control, control, contref, control, contret, control, control, control, contref, control	EFFECTIVE DATE: 5-06				
- Gas Engineering     BEVEW DATE: 5-13     TITLE: Proceedure for     Beving Application     Software for     Memory software for     Works and     Software for     Software for     Works and     Software for     Works and     Software for     Works and     Software for     Software for     Works and     Software for     Software for     Software for     Software for     Software for     Works and     Software for     Software     Software     Software for	UO SPONSOR: Director			1. Never store company	
EXPERIDATE: 5-13       private doth dires, only use company flat dires that have been scanned for viruses.         Exprivate functions       viruses.         Biorging Application       Software functions         Microprocessor-Based       2.         Controls       computers. Only write code on home computers. Only write code on secure company flat direct company flat direct and pany direct direct and direct and pany direct direct and direct	– Gas Engineering			computer programs on	
TTLE: Procedure for Rexisting Application Software for Wincorcessor-Based Controls       Never write code on home comparises. Only write code on secure company comparises within a success and the secure company flash differs into home compares.       Never write code on home comparises within a company comparise company comparises.         3. Never insert company flash differs into home compares.       Never insert company flash differs into home compares.       Never insert company flash differs into home compares.         4. Never insert company flash differs into home compares.       Never insert company flash differs into home compares.       Never insert company flash differs into home compares.         5. All code differs that employees write must be scalar differs on an differs on an discontext, into differs into matches write must be scalar differs.       Never insert company into differs into matches write must be company intermet into matches processor based controls.         UTULTY PROCEDURE VPMADID. Table: Feature y2005. Thite: SCADA RU Installation on Gas facilities       X         UO Guide line G14222, EFFECTIVE DATE-6-6 Instrument and Control Wres, and Tagging Wres, CaNes, and Conducts for CRAD facilities       X         U330, Revision 1.1, Fetter base: 01 Mov 1990, Review Date: 01 Nov. 2001, "Specification for Contrest Cosing"       X	REVIEW DATE: 5-11			private flash drives, only use	
TITLE: Procedure for Bareing Application       have been scamed for viruses.         Software for Microprocessor-Based       2. Never write code on home computers. Only write code constructions. South the code is holded on the electronic devices PICS south constructions.         UPUTY PROCEDURE       X         VARAULT CONSTRUCTION       X         VARAULT Constructions.       X         VARAULT Constructions.       Newer into micro- viruses before the code is holded on the electronic devices PICS south on the code is holded moderna, interrupt the code is constructions.         VARAULT PROCEDURE       X         VARAULT PROCEDURE       X <td></td> <td></td> <td></td> <td>company flash drives that</td> <td></td>				company flash drives that	
Iterating Application       Software for         Software for       Never visite code on home         Controlis       Never visite company         Controlis       Never visite company         Controlis       Never visite company         Controlis       Never visite company         Never visite company       Never visite code on the neve	TITLE: Procedure for			have been scanned for	
Settware for Microprocessor-Bued Controls       2.       Never vrite code on home computers. Only write code on secure company computers.         Controls       Settware for Microprocessor-Bued Controls       Settware for mercessor-Bued Controls       Settware for Microprocessor-Bued Controls         Unicroprocessor-Bued Controls       Settware for Microprocessor-Bued Controls       Settware for Microprocessor-Bued Controls       Settware for Microprocessor-Bued Controls         Unicroprocessor-Bued Controls       Settware for Microprocessor-Bued Controls       Settware for Microprocessor-Bued Computers.       Settware Microprocessor-Bued Computers.         Unicroprocessor-Bued Controls       Settware for Microprocessor-Bued Conductions       Settware Microprocessor-Bued Conductions       Settware Microprocessor-Bued Conductions         UTILITY PROCEDURE Verbrary 2008, Title: SCADA RTU Installation on Gas Facilities       X       Note -1 don't sea any other sourchy requirements. Setting writed software into micro- processor Bued Controls.       X         UD Guddine G14272, February 2008, Title: SCADA RTU Installation on Gas Facilities       X       Conduct and cabe condition and failures?       X         UO Guddine G14272, Wrest, Cables, and Conducts for GTADA Facilities       X       Conduct and cabe condition and failures?       X         Settors: What pipes are control write Wrest, Cables, and Conducts for GTADA Facilities       X       Construct Write Standard       X         Settors: What pipes are control write Wres	Revising Application			viruses.	
Microprocessor-Based Controls       Computers. Only write code on scure company tash drives into home computers.       Second company tash drives into home computers.         Never insart company fash drives into home computers.       Never insart company fash drives or storage devices into company computers.         Never insart company fash drives or storage devices into company computers.       Never insart company fash drives or storage devices into company computers.         UTILITY PROCEDURE WYH901, Date:       X       All code that employees write with sea on of disconnect, veride with procedure is before lading revised software into micro- professor insafted moderns, internet connections, wireference ben?       X         UTILITY PROCEDURE WYH901, Date: February 2008, Title: ScADA RTU Insaftation       X       Nate -1 derit see any opter security requirements. Should the procedure reference ben?       X         UOC caldeline G14272, EFECTURE DATE: 5-06 REVEW DATE; 6- 11THE: selecting Instrument and Control Wres, and Tagging Wres, Cables, and Conduits for GT8D Fagilities       X       Consenter: West pages are control with failures?       X         S430, Revision 1.1, Effective Date; 01 Nov. 1399, Review Date; 01 Nov. 1399, Review Date; 01 Nov. 1399, Review Date; 01 Nov. 1390,	Software for			2. Never write code on home	
Controls       an secure company computers with no internet/intranet access.       A. Never insert company (fash drives into home computers.         4. Never insert private fash drives into home computers.       S. All code that employees write must be stanned for unuses before the code is loaded out the electronic devices (PLCS etc).         5. All code that employees write must be stanned for unuses before the code is loaded out the electronic devices (PLCS etc).         6. Mayas change the passwords on, or disconnect, wreder installed molema, internet connections, wireless cards, routers, etc. the form loading revised software into micro- processor based controls.         UTILITY PROCEDURE WP4000, Date: February 2008, Title: SCADA RTU Installation on dis Facilities       X         UO Guideline G14222, FFECTIVE DATE: 6-06 REVEW DATE	Microprocessor-Based			computers. Only write code	
UTILITY PROCEDURE       X         UPACTURE       X         UPACTURE <td>Controls</td> <td></td> <td></td> <td>on secure company</td> <td></td>	Controls			on secure company	
Image: Second				computers with no	
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Image: Second				3. Never insert company flash	
Image: Section of the section of th				drives into home computers.	
UTILITY PROCEDURE     X       UTILITY PROCEDURE     X       WM301, Date:     February 2008, Title:       SCADA RFU matulation     X       UTILITY PROCEDURE     X       WM301, Date:     February 2008, Title:       SCADA RFU matulation     X       UTILITY PROCEDURE     X       WM301, Date:     February 2008, Title:       SCADA RFU matulation     X       UO Guideline G14272, EFFECTIVE DATE: 6-6     X       UO Guideline G14272, EFFECTIVE DATE: 6-6     X       Statisfies     X       Statisfies (G18,D)				4. Never insert private flash	
UTILITY PROCEDURE     X       UTILITY PROCEDURE     X       Vires, and Control     X       UG Guideline G14222, EFFECTIVE DATE: 6- 111TILE: Selecting Instrument and Control     X       Vires, and Tagging Wires, Cables, and Conduits for GT&D Facilities     X       S4130, Revision 1.1, Effective Date: 01, Nov. 1999, Revise Date: 01, Nov. 1990, Revise Date: 01, N				drives or storage devices into	
S. All code that repriores write must be scanned for viviuses before the code is loaded onto the electronic devices (PLC's etc.)         G. All code that repriores write must be scanned for viviuses before the code is loaded onto the electronic devices (PLC's etc.)         IUTILITY FROCEDURE WP4901, Date: February 2008, Title: SCADA RTU Installed modems, internet connections, wireless cards, routers, etc. before loading revised software into micro- processor based controls.       X         UTILITY FROCEDURE WP4901, Date: February 2008, Title: SCADA RTU Installetion on Gas Facilities       X       Reference them?       X         UO Guideline G14272, EFFECTIVE DATE: 6-6 INTITLE: Selecting Instrument and Control       X       Question - is anyone tracking wiring, conduit and cable condition and failures?       X         S130, Revision 1.1, Effective Date: 01 Nov. 1999, Revise Date: 01 Nov. 1990, Revise Date: 01 Nov. 1990, Revise Date: 01 Nov. 1990, Revise Date: 01 Nov. 				company computers.	
Witte must be scanned for viruses before the code is loaded onto the electronic devices (PLC's etc).       6.         Always change the password's on, or disconnect, vendor installed modems, internet connections, wireless cards, routers, etc. before loading revised software into micro- processor based controls.       X         UTILITY PROCEDURE W44901, Date: February 2008, Title: SCADA RTU Installation on Gas Facilities       X       Note - I don't see any opter security requirements. Should this procedure reference them?       X         UD Guideline G14272, EFFECTIVE DATE: 6-06 REVIEW DATE: 6-1 11TTITE: Selecting Instrument and Control Wires, and Tagging Wires, cables, and Conduits for GT&D Facilities       X       Question: What ples are coated with, conduit and cable condition and failures?       X         S1410, Revision 1.1, Effective Date: 01 Nov. 1999, Review Date: 01 Nov. 2003, "Specification for Concrete Coating"       X       Question: What ples are coated with, concrete? The specifiers to AWWS, American Water Works Stendard       X				5. All code that employees	
Wittes before the code is loaded onto the electronic devices (PLC) setc).       Silves before the code is loaded onto the electronic devices (PLC) setc).         G. Always change the passwords on, or disconnect, vendor installed modems, internet connections, wireless cards, routers, etc. before loading revised software into micro- processor based controls.         UTILITY PROCEDURE W44901, Date: February 2008, Title: SCADA RTU Installation on Gas Facilities       X         UO Guideline G14272, EFFECTIVE DATE: 6-06 REVIEW DATE: 6-06 REVIEW DATE: 6-06 REVIEW DATE: 6-06 REVIEW DATE: 6-06 REVIEW DATE: 6-01 Instrument and Control Wires, and Tagging Wires, Colles; and Conduits for GT&D Facilities       X       X       Couestion - Is anyone tracking wiring, conduit and cable condition and failures7       X         S4130, Revision 1.1, Effective Date: 01 Nov. 2001, "Specification for Concrete Coating"       X       Question: What pipes are coated with concrete? This specifies to AWWS, American Water Works Standard       X				write must be scanned for	
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UTILITY PROCEDURE       X         UTILITY PROCEDURE       X         WP4901, Date:       Forward:         February 2008, Title:       X         SCADA RTU Installation       X         UO Guideline G14272, EFFECTIVE DATE: 6-06 REVIEW DATE: 6-101 INTITIE: Selecting Instrument and Control Wires, cables, and Conduits for GT&D Facilities       X         S4130, Revision 1.1, Effection 10 Nov. 1999, Review Date: 01 Nov. 2001, "Specification for Concrete Coating"       X				loaded onto the electronic	
G. Always change the passwords on, or disconnect, vendor installed modems, internet connections, wireless cards, routers, etc. before loading revised software into micro- processor based controls.         UTILITY PROCEDURE       X         W4401, Date: February 2008, Title: SCADA RTU Installation on Gas Facilities       X         UO Guideline G14272, EFFECTIVE DATE: 6-06 REVIEW DATE: 0-10 Wires, cables, and Conduits for GT&D Facilities       X       Question - Is anyone tracking wiring, conduit and cable condition and failures?       X         \$4130, Revision 1.1, Effective Date: 01 Nov, 1999, Review Date: 01 Nov. 2001, "Specification for Concrete Coating"       Question - What pipes are coated with concrete?       X				devices (PLC's etc)	
UILITY PROCEDURE       X         WY4901, Date:       F         February 2008, Title:       Software into micro-processor based controls.         UUTLITY PROCEDURE       X         WY4901, Date:       F         February 2008, Title:       Software into micro-processor based controls.         UUTLITY PROCEDURE       X         WY4901, Date:       F         February 2008, Title:       Software into micro-processor based controls.         UO Guideline G14272,       X         EFFECTIVE DATE: 6-0       F         REVIEW DATE: 6-0       F         ITTLE: Selecting       Instrument and cole condition and failures?         Instrument and Control       Wires, and Tagging         Wires, and Tagging       Cuestion 1.1, E         Feffective Date: 01 Nov.       Guestion 1.1, E         Feffective Date: 01 Nov.       Specification for Concrete Coating*				6 Always change the	
UTILITY PROCEDURE       X         UTILITY PROCEDURE       X         VP4901, Date:       February 2008, Title:         SCADA RTU Installation       X         On Gas Facilities       X         UO Guideline G14272, EFFECTIVE DATE: 6-06       X         REVEW DATE: 6-111TITE: Selecting Instrument and Control       X         S4130, Revision 1.1, Effective Date: 01 Nov, 1999, Review Date: 01 Nov. 2001, "Specification for Concrete Coating"       X				<ol> <li>Always change the</li> </ol>	
Vendor Installed modems, internet connections, wireless cards, routers, etc. before loading revised software into micro- processor based controls.         UTILITY PROCEDURE W44901, Date: February 2008, Title: SCADA RTU Installation on Gas Facilities       X         UO Guideline G14272, EFFECTIVE DATE: 6-6 REVIEW DATE: 6-6 REVIEW DATE: 6-6 REVIEW DATE: 6-6 REVIEW DATE: 6-6 REVIEW DATE: 6-6 REVIEW DATE: 6-1 11TTLE: Selecting Instrument and Control Wires, and Tagging Wires, Cables, and Conduits for GT&D Facilities       X       X       Question - is anyone tracking wiring, conduit and cable condition and failures?       X         \$4130, Revision 1.1, Effective Date: 01 Nov. 2001, "Specification for Concrete Coating"       Question: What pipes are coated with concrete? The spec refers to AWWS, American Water Works Standard       X				passwords on, or disconnect,	
Interfet contections,       Interfet contections,       Interfet contections,         Wireless cards, routers, etc.       before loading revised       software into micro-         UTILITY PROCEDURE       X       Note - I don't see any cyber security       X         WP4901, Date:       February 2008, Title:       SCADA RTU Installation       Note - I don't see any cyber security       X         UO Guideline G14272,       X       Cuestion - Is anyone tracking wiring,       Conduits and cable condition and       X         UO Guideline G14272,       X       Cuestion - Is anyone tracking wiring,       Conduits and cable condition and       X         Instrument and Control       Wires, cables, and       Conduits for GR&D       Concerter? The spec refers to AWWS,       X         S4130, Revision 1.1,       Effective Date: 01       Nov.       Specification for       Concrete? The spec refers to AWWS,       X         1999, Review Date: 01       Nov.       Specification for       Concrete Coating"       X       X				vendor installed modems,	
Witeless Cards, routers, etc.         before loading revised         software into micro-         processor based controls.         UTILITY PROCEDURE         WP4901, Date:         February 2008, Title:         SCADA RTU Installation         on Gas Facilities         UO Guideline G14272,         EFFECTIVE DATE: 6-0         11TITLE: Selecting         Instrument and Control         Wires, cables, and         Conduits for GT&D         Facilities         S4130, Revision 1.1,         Effective Date: 01         Fedication for         Concrete Coating"				Internet connections,	
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OTHERPERDEDURE       X         WP4901, Date:       February 2008, Title:         SCADA RTU Installation on Gas Facilities       X         UO Guideline G14272, EFFECTIVE DATE: 6-06 REVIEW DATE: 6-       X         11TITLE: Selecting Instrument and Control       X         Wires, and Tagging       X         Wires, Cables, and Conduits for GT&D Facilities       Question: Uhat pipes are coated with concrete? The spec refers to AWWS, American Water Works Standard       X         S4130, Review Date: 01 Nov. 2001, "Specification for Concrete Coating"       X       X		N		Ninter i destra esta des estas	N N
Wipsol, Date:       February 2008, Title:       ScADA RTU Installation       Reference them?         SCADA RTU Installation       Question - Is anyone tracking wiring, conduit and cable condition and failures?       X         UO Guideline G14272,       X       Conduit and cable condition and failures?       X         EFFECTIVE DATE: 6-06       REVIEW DATE: 6-0       Rule Works, and Control       X       Conduit and cable condition and failures?       X         11TITLE: Selecting       Instrument and Control       Wires, and Tagging       X       Conduits for GT&D       X         S4130, Revision 1.1,       Effective Date: 01 Nov.       S4130, Review Date: 01 Nov.       X       American Water Works Standard       X         1999, Review Date: 01 Nov.       You 2001,       "Specification for Concrete Coating"       X       Concrete Coating"       X	UTILITY PROCEDURE	X		requirements. Should this procedure	×
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UCImage: Constraint of the second	on Gas Facilities				
OU Guideline Gl4272,       X         EFFECTIVE DATE: 6-06         REVIEW DATE: 6-01         11TITLE: Selecting         Instrument and Control         Wires, and Tagging         Wires, Cables, and         Conduits for GT&D         Facilities         S4130, Revision 1.1,         Effective Date: 01 Nov.         1999, Review Date: 01         Nov. 2001,         "Specification for Concrete Coating"				Ouesting the second stars big subits	
EFFECTIVE DATE: 6-0       Instrument and Control         Mires, and Tagging       Wires, cables, and         Conduits for GT&D       Pacilities         S4130, Revision 1.1,       Effective Date: 01 Nov.         1999, Review Date: 01       Nov. 2001,         "Specification for Concrete Coating"       Image: Concent Control of Control of Control of	UU Guideline G14272,	Х		Question – is anyone tracking wiring,	X
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11TITLE: Selecting         Instrument and Control         Wires, and Tagging         Wires, Cables, and         Conduits for GT&D         Facilities         S4130, Revision 1.1,         Effective Date: 01 Nov.         1999, Review Date: 01         Nov. 2001,         "Specification for         Concrete Coating"	REVIEW DATE: 6-				
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Wires, Cables, and Conduits for GT&D Facilities       Image: Cables, and Conduits for GT&D Facilities       Image: Cables, and Conduits for GT&D       Image: Cables, and Cables, and Ca	Wires, and Tagging				
Conduits for GT&D       Facilities       Question: What pipes are coated with concrete? The spec refers to AWWS, American Water Works Standard       X         S4130, Revision 1.1,       Effective Date: 01 Nov.       Question: What pipes are coated with concrete? The spec refers to AWWS, American Water Works Standard       X         1999, Review Date: 01       Nov. 2001,       "Specification for Concrete Coating"       V       V	Wires, Cables, and				
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Nov. 2001,     "Specification for       "Specification for	1999, Review Date: 01			American water works standard	
"Specification for Concrete Coating"	Nov. 2001,				
Concrete Coating"	"Specification for				
	Concrete Coating"	 			

Standard 4132. Missing	- IM engineers should track	Х
Revision: 1. Effective failures	of the Epoxy Coating, although	
Date: 01 Feb. 2000.	the standard or procedure	
Review Date: 01 Feb	nis would be documented.	
2002 "Powercrete I		
Application		
Specification"		
Specification		