



ConocoPhillips Pipe Line Company

SCADA Change Verification System Change Request

April 22, 2010
Cybernetics Symposium

195.446 Control Room Management Change Verification

Paragraph C

- (1) Implement API RP 1165 whenever SCADA system is added, expanded or replaced, unless the operator demonstrates that certain provisions of API RP 1165 are not practical for the SCADA system used;
- (2) Conduct a point-to-point verification between SCADA displays and related field equipment when field equipment is added or moved and when other changes that affect pipeline safety are made to field equipment or SCADA displays.



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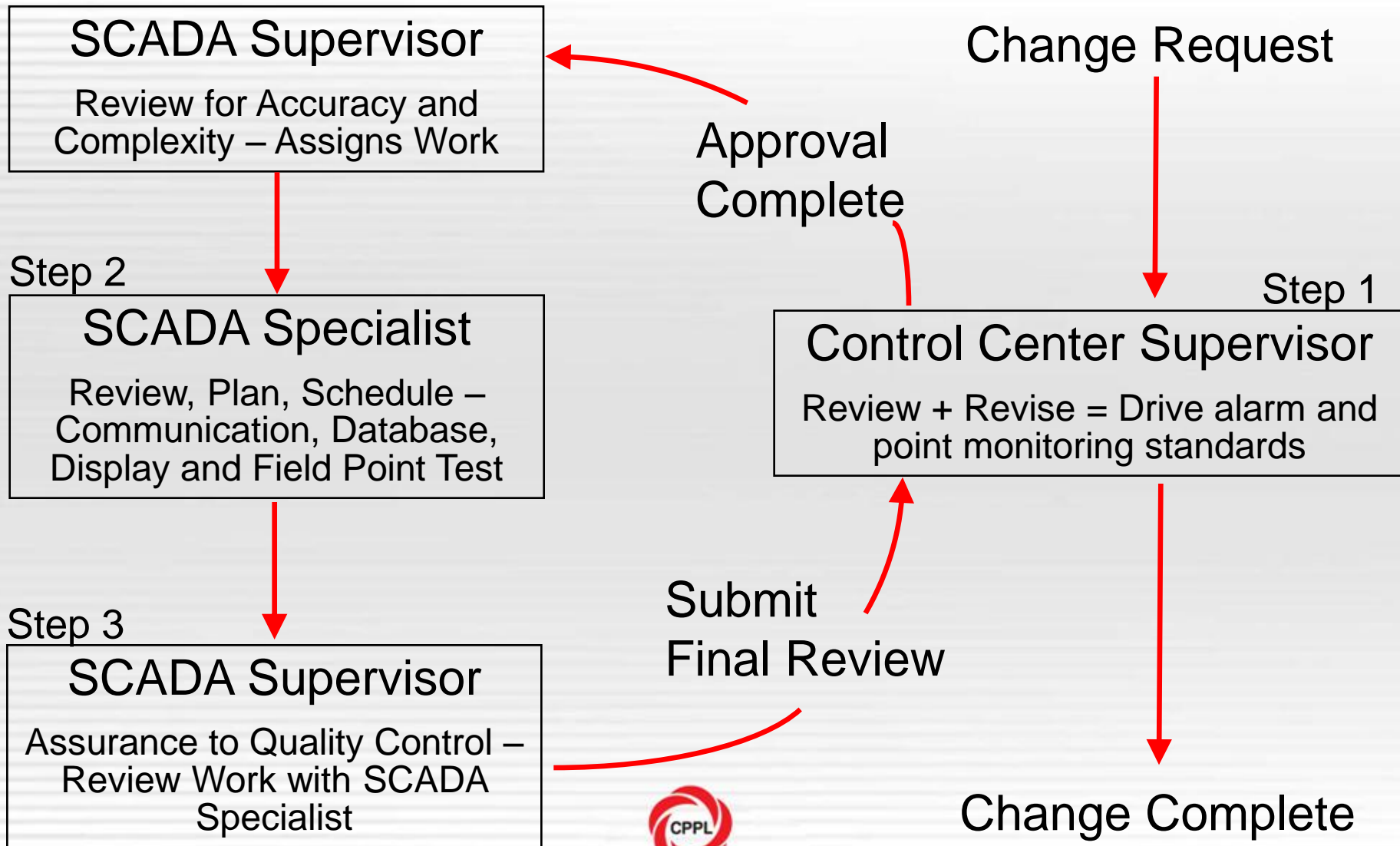
System Change Request (SCR) software tool

- SQL Database Design
- Facilitates MOC with Prioritization
- Documents Work Flow & Approvals
- Supports File Attachments & Comment
- Filter Keys for enhanced search
- Electronic Notifications Throughout Approval Levels



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SCR Flow Diagram Simplified



SCR Navigation

SCR

DNA SCADA PRODUCTION System Change Request Process

Welcome CONOCO\BERWAJM

SCR System updated 18-Aug-2009.
Notify John Berwaldt if problems are found.

Your Login ID is
Do you want to

berwajm

SeeMy

JOBs

SeeAll

SCR's I Created

Add

a new SCR

View

SCRs

Manage

SCRs



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Facilitates MOC with Prioritization

Step 1

SCR ID	Title	Top Ten	Entered By	Date Entered	Date Due	Assignee	Status	Work Area	Control Status
SCR03001(DNA) <input type="checkbox"/>	WT10 - WT80 Modifications	<input type="text" value=""/>	cunniwd	2/25/2010	3/4/2010	jtran	4: Work In Progress	OP	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>
SCR03002(DNA) <input type="checkbox"/>	T296 DesMoine Terminal for PCCC monitoring	<input type="text" value="8"/>	pabutle	2/25/2010	3/4/2010	okudoup	3: Ready to Begin	OP	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>
SCR03003(DNA) <input type="checkbox"/>	T045 Lincoln Terminal for PCCC monitoring	<input type="text" value="8"/>	pabutle	2/25/2010	3/4/2010	okudoup	3: Ready to Begin	OP	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>
SCR03004(DNA) <input type="checkbox"/>	SMD2_CASP_SINC batch tracking	<input type="text" value="3"/>	rlday	2/26/2010	3/8/2010	rlday	4: Work In Progress	SY	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>
SCR03005(DNA) <input type="checkbox"/>	WR_PP Medford Cavern & Brine Water ESD's	<input type="text" value=""/>	pabutle	2/26/2010	3/5/2010	okudoup	3: Ready to Begin	OP	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>
SCR03006(DNA) <input type="checkbox"/>	SM01 Med-Bow block valve N9 conversion	<input type="text" value="1"/>	whbrook	3/1/2010	3/8/2010	okudoup	6: Waiting for Manager Appv	OP	Hold Cancel <input type="radio"/> <input type="radio"/> <input type="button" value="Go"/>



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Documents Approvals Step 1 & 3

System Change Request - SCR02085

Document Status: clean

System:DNA

TITLE:

Date Initiated: <input type="text" value="9/3/2008"/>	Requested by: <input type="text" value="whbrook"/>
Date Required: <input type="text" value="9/10/2008"/>	Priority: NEEDED
Pipeline/Station: <input type="text" value="CON03"/> <input type="text" value="Utica"/>	Notifications: <input type="text" value="whbrook"/>
Database Work Required: <input type="text" value="N"/>	Display Work Required: <input type="text" value="N"/>
System Work Required: <input type="text" value="N"/>	Hardware Work Required: <input type="text" value="N"/>
Documentation Work Required: <input type="text" value="N"/>	Field Work Required: <input type="text" value="N"/>

Top Ten:

Fast Tracked: N

Operations(Displays, Configuration, etc.)

SCADA(System, Hardware etc.)

DESCRIPTION

Utica station on GL07, the pumps and dead legs are being taken out. Attached is the new N-9 file to show what point we want to get rid of and what we need to keep. All of the pump information and display can be removed.
Field contact is Dan Schulze cell 406-366-1902 or Bill McCombs 406-949-1058
-----11/18/2009-----Juli Tran-----
Currently Utica has the DS4 2.4 firmware. There was a DS4 2.6 director sent to Curt Sherman on 10/13/09.
Will we schedule to replace with the DS4 2.6?
-----2/17/2010-----Scott A. Jenkins-----
Juli, Utica station is on the list of Glacier Pipeline stations that will be

APPROVALS

Work Approval: <input type="text" value="beckedl"/>	Date: <input type="text" value="9/4/2008"/>
Tech Approval: <input type="text" value="jtran"/>	Date: <input type="text" value="2/23/2010"/>
N.O.C. Approval: <input type="text"/>	Date: <input type="text"/>
Tech Mgr Approval: <input type="text" value="berwejm"/>	Date: <input type="text" value="3/13/2010"/>
Closed By: <input type="text"/>	Date: <input type="text"/>

CURRENT INFORMATION

Assigned to:

Current Status:

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File Attachments and Change Management Step 2

Submit Changes to Above

Submit

Close Window

Attachments

View/Get/Remove: Utica PLC #1 N9 8JUL2008.xls(V)(G)(R), scr2085_emails.bt(V)(G)(R)

Select New Attachments:

NEW:

INSTALLATION








miscellaneous	Other	2/23/2010	jtran	Mark Installed	Clear
system	Consoles	2/23/2010	jtran	Mark Installed	Clear
system	Models			Mark Installed	Clear
system	Network			Mark Installed	Clear
system	SCADA	2/23/2010	jtran	Mark Installed	Clear

JOB S


JOB ID	Type	Class Name	Version Date	P/L Station	Description	Assignee Completed	Tester Tested	Status Action
JB003691	director	generic	9/26/2008	CON03 Utica	Sent DS4 to Dan. Configure director. download station config. Reset.	jtran 4/20/2009	jtran 4/20/2009	Complete Modify
JB003718	ace	generic	10/1/2008	CON03 Utica	Removed unt3 & unt4 from GLOO_Shutdown5. Modified Ace Code	jtran 10/1/2008	jtran 10/1/2008	Complete Modify
JB003719	flowpath	flowpath	10/1/2008	CON03 Utica	Removed unt3 & unt4 from flowpath.	jtran 4/20/2009	jtran 4/20/2009	Complete Modify

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Electronic Notifications

	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Closed by Darrell L. Becker Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Mon 3/15/2010 9:15 AM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Has Been Approved for Test by Juli Tran Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Fri 3/12/2010 1:14 PM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Work Complete by Juli Tran Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Fri 3/12/2010 1:14 PM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Work in Progress by Juli Tran Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Fri 3/12/2010 12:55 PM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Assigned to Juli Tran Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Fri 3/12/2010 12:54 PM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Approved by Darrell L. Becker Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Fri 3/12/2010 12:47 PM
	apps.conocophillips.net/SCR@mail1.p... SCR03031(DNA) Please Approve SCR submitted by Billy D. Cunningham Due:3/18/2010 Pty:4 Title:WT10 Analog Point at MP 146	Thu 3/11/2010 6:35 PM

**SCR03037(DNA) Has Been Approved for Test by Juli Tran Due:3/22/2010 Pty:4
Title:Remove BP01 & GR02 from Console 7**

 apps.conocophillips.net/SCR@mail1.pcco.com

To: Butler, Paul A

Cc: Berwaldt, John M

To go to SCR System [click-here](#).

Please do not reply.



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User Management

User ID	Primary System	Name	E-Mail	Type	Appv	Prim Appv	Copy Mail	Full Use	Submit		
beckedl	DNA	Darrell L. Becker	Darrell.L.Becker@conocophillips.cc	DR	Y	Y	N	N	Modify	Delete	Test
berwajm	DNA	John M. Berwaldt	John.M.Berwaldt@conocophillips.cc	DS	Y	Y	Y	Y	Modify	Delete	Test
cgwilli	DNA	Glen C. Williamson	glen.g.williamson@conocophillips.c	SS	Y	N	N	N	Modify	Delete	Test
closedh	DNA	Dennis H. Close	dennis.h.close@conocophillips.com	DR	Y	Y	N	N	Modify	Delete	Test
collimj	DNA	Mikel J. Collins	mikel.collins@conocophillips.com	FS	N	N	N	N	Modify	Delete	Test
cunniwd	DNA	Billy D. Cunningham	William.D.Cunningham@conocophilli	SR	Y	N	N	N	Modify	Delete	Test
dalelj	DNA	Dale Johnson	Dale.Johnson@conocophillips.com	SS	Y	N	N	Y	Modify	Delete	Test

Item Management

Manage SCR Items

System	Inactive	Selector	Item Type	Item Class	Description	Submit	
--	<input type="checkbox"/>	install	miscellaneous	Other	Installation System	Modify	Delete
--	<input type="checkbox"/>	install	system	Consoles	Installation System	Modify	Delete
--	<input type="checkbox"/>	install	system	Models	Modeling/Applications System	Modify	Delete
--	<input type="checkbox"/>	install	system	Network	Installation System	Modify	Delete
--	<input type="checkbox"/>	install	system	SCADA	Installation System	Modify	Delete
--	<input type="checkbox"/>	item	documentation	documentation	SCADA Documentation	Modify	Delete
--	<input type="checkbox"/>	item	hardware	computer	Computer component	Modify	Delete
--	<input type="checkbox"/>	item	hardware	network	Network component	Modify	Delete