## The Shell Petroleum Development Company of Nigeria Limited Engineering Control Procedures SPDC

			g Control Procedures	J	
	MINUTES OF	CORPORATI	E CHANGE MANAGEM	MENT PANEL MEETING	
Date: 22/4/2021		Venue:	Online (MS Teams)		
		Time:	10:00AM - 12:00P/	М	
Attendance _					
CCMP members:					
Raimi Olabanji – Eng	0 '	eahon Edmu			
Dawodu Mike – Mech	Eze	ifedi Humph	nrey - MCl		
Adoga Inalegwu - Process Ntemuse Johnson - PACO					
Asilonu, Collins - Civil		itunji Ayoolo	a – Pipelines		
Saka, Olufunke – Elect					
Sambasivam Srinivas -	Process Safety				
CCMP Secretary:					
Sangoyinka, Habib					
Juligoyilika, Habib					
<u> Change Originators / Sp</u>	<u>onsor</u>				
Ajilore Linda	Adedeji Jes	uloluwa	Akpofure		
Akinro Babatunde	Olowu Ade		Akinjagunla Oluw	vashina	
Otobo Didi	Obi Emman	•	Dafiadje Ogheno		
Onyejekwe Chimuany	a Taylor Paul				
Umaru Jimmai	Ikpeazu Ke	lechi			
	Proposal for Consid	eration:			
1.1				00) and temporary disconnection of H	H and LL
	instrumentation (100			15	
1.2	Change Request No		3716	Presenters – Linda	
1.2.1	ISSUES RAISED / D		1 .1 (1) . 1	DALLO (L. I.	1.0
1.2.1a Background	CCMP Approval is s	ought to mo	ake the following chan	ges on FYNAG flowline:	Info.
	1. Replace its Offsh	ore PCV -10	00 PCV 100 with a Spo	pol piece	
				trumentation (100 PZS 104A and 100	
				00 XZV 104 always open pending the	
	installation of new H	<del>I</del> H and LL in	strumentation downstr	eam the SDV	
	Background:				
	background.				
	FYNAG Project is ai	med at prod	lucing NAG (Non asso	ociated gas) from Well 153 In Forcados	
	node for gas condi	tioning (Wo	ater and Hydrocarbon	dew pointing) before export to ELPS	
				pressure let down of the NAG from the	
				CV (Pressure control valve) installed on	
				through which the gas flow onwards so HH and LL pressure safeguarding	
			valves on the flowline (		
			(		
				/ is higher than the supply leading to	
				es put in place to maintain the valve at	
				nuous closing of the PCV and well trips.	
				ssure safeguarding instrumentation on is a risk of instrumentation blow out or	
	LOPC in the event th			13 G 713K OF HISH OFFICIALION DIOW OUT OF	
	Hence, to address th	nese issues c	and achieve stable and	safe production, it is proposed to:	
	1.0.1	0011	00 00//100 11 0	1 •	
			00 PCV 100 with a Sp		
				rumentation offshore to keep he installation of new HH and LL	
	instrumentation dow			no moralidado de nove en entra El	

		Reason for Change To achieve safe and stable production of NAG to meet SPDC's obligation to DOMGAS customers	
1.2.1b	Alternative Considered	Do Nothing	Info.
1.2.1c	Gains	Stop production deferment and payment of fine     Protection of NAG well down hole sand control equipments by preventing frequent well trip	Info.
1.2.1d	Validity period	Temporary	Info.
1.2.1e	CCMP steers	<ol> <li>Design for a permanent solution with support from the process safety team</li> <li>Review the DSR carried out with the Process Safety TA.</li> </ol>	
1.3		CCMP MANDATE: Approved pending the implementation of steers 2	

N.B: Background and Gains sections of the MoM are obtained from the stated MoCs on FSR

2		Proposal for Consideration:		
2.1	,			
2.2		Change Request No.: MOC 103534 Presenter – Jesuloluwa		
2.2.1		ISSUES RAISED / DISCUSSED		
2.2.1a	Background	CCMP approval is sought for:  1. Installation of temporary sampling point on a drain valve (11-BV-035) of the 20" K2S bulkline for corrosion monitoring.  The line is a carbon steel piping. There is an installed corrosion inhibitor (KI-3940) at 95% availability. At present, the sampling point on the line (downstream the slug catcher) is not a suitable location to monitor the effectiveness of the chemical being injected on the bulkline. Previous condensate laboratory test results have returned with 0% water content, which is theoretically impossible. It has become pertinent to ascertain if the line is indeed free of water and requires minimal (or no) corrosion inhibitor injection. The intent is to commence daily sampling on the line to monitor the effectiveness of the corrosion inhibitor and optimize on the injection rate.  Reason for change		
		<ol> <li>Current sampling point is not suitable to collect acc required parameters.</li> <li>Current corrosion injection rates could be excessive,</li> </ol>	·	
2.2.1b	Alternative Considered	Do Nothing	issamg is riigii et Lin	Info.
2.2.1c	Gains	1. Cost savings on use of corrosion inhibitor (KI-3940). on 20% reduction in corrosion inhibitor injection rate.	A \$ 57k annual savings is projected	Info.
2.2.1d	Validity period	Temporary		Info.
2.2.1e	CCMP steers	<ol> <li>Consider the risk of generation of electrostatic</li> <li>Update the SOP and Asbuilt data based on the</li> </ol>	ŭ ŭ	Jesuloluwa
2.3		CCMP MANDATE: Approved		

3		Proposal for Consideration:		
3.1		Tunu FS: MOC 100915: Tunu FS/CPF Alarm Rationalization (Setpoint, Priority Change and Suppression)		
3.2		Change Request No.: MOC 100915	Presenter – Jimmai	
3.2.1		ISSUES RAISED / DISCUSSED		
3.2.1a	Background			Info.

		B. Critical to Advisory/Disable/Log/Warning 1342 C. Warning to Critical/Disable/Log/Target 2134 D. Advisory to Critical/Log 223 E. Log to Critical/Standard 258 F. Not Enabled to Critical/Standard/Target 113 G. High/ICN_PV/Fault to Log/Advisory 199 Therefore, Total Alarms for Priority Change = 4269  2. Create Dynamic Suppression Logic at TUNU CENTRAL PROCESSING FACILITY 3. Create Static Suppression Logic at TUNU CENTRAL PROCESSING FACILITY 4. Create and implement Setpoint Change as agreed in the alarm rationalization. The above changes were identified during the alarm rationalization exercise review with all stakeholders.  Background: The DCS system continuously monitors all equipment and devices via transmitters and other sensing devices. This helps to track faults and changes that occur in equipment as alarms. These alarms are generated as long as there are changes that fall outside the operating range of the equipment. During a plant trip, ESD or equipment failure, these alarms are also generated. However, these feedback alarms that are generated as a result of the trip or ESD, usually result in an increase in the alarm rate per hour and the number of standing alarms per shift per day. This focurse, would not require immediate operator's action. Nevertheless, an ideal situation should be that whenever we have a shutdown or trip, only the feedback alarms from the impacted process and running equipment should be inhibited until the cause of the situation is resolved and process normalized. On this note, personnel are not exposed to unwanted audible alarms which could lead to poor console management. It is important to note also that when an alarm is assigned to the correct priorities, it saves a lot of time and gives the operator a good frame of mind to attend to important things than wasting time on unnecessary alarms. A good alarm management and operating envelope will necessarily lead to good adherence and process aftety compliance.  * To reduce unwanted and unnecessary high alarms flooding the DCS system th	
0.0.1	Ali d	and process safety compliance.	
3.2.1b	Alternative Considered	Do Nothing	Info.
3.2.1c	Gains	* To reduce unwanted and unnecessary high alarms flooding the DCS system thus increasing the alarm count rate per hour. When this is achieved, operations personnel are not exposed to any process safety incident caused by unnecessary high alarms.  * When an alarm is assigned to the correct priorities, it saves a lot of time and gives the operator a good right frame of mind to attend to important things than wasting time on unnecessary alarms.  * A good alarm management and operating envelope will necessarily lead to good adherence and process safety compliance.	Info.
3.2.1d	Validity period	Permanent	Info.
3.2.1e	CCMP steers	None	
3.3		CCMP MANDATE: Approved	