



UIO-G FLARING/GOR CONTROL WAIVER

Flare Request No.: FLRW140121 **Date:** Friday, October 03, 2014
Category: Compressor-System Outage
Waiver Start Date: 01-10-2014 **Start Time:** 12:0-PM
Waiver End Date: 12-10-2014 **End Time:** 12:59-PM

Facility Name:	Agbada 2 FS,
Flare (or AG) Volume (mmscfd):	980
Associated Oil Production (mbopd):	1540000
Reason for flaring (or HOG production):	<p>AGBADA AGG TURBINE 30K INSPECTION: There is a planned change out of Agbada 2 AGG turbine Engine from 01/10/2014 to 12/10/2014, unit having run 33,391 hrs to date against 30,000 fired hours scheduled engine change out. The engine is available and site mobilisation in place to execute the work as per attached work schedule. This will prevent the compression of associated gas from Agbada 1 and 2 Flowstations respectively.</p> <p>SECTIONAL REPLACEMENT OF 12" GAS PIPELINE AGBADA 1 TO AGBADA 2 Planned sectional replacement of 12" gas export line from Agbada 1 to Agbada 2 requires complete isolation of the line and shutdown of the Booster compressor.</p> <p>During the Turbine engine change out, there will be flaring of 13.6MMscf from Agbada 1 and 2 flowstations as against target flare volume of 1.95MMscf/d.</p>
Justification for waiver request:	<p>The waiver is to:</p> <ol style="list-style-type: none"> 1. Keep the flowlines pressurised and discourage flow line and well head vandalism 2. Achieve Planned maintenance activities on AGG and pipe line facilities. 3. Ensure continued production of 22,000boe/d from these two facilities
Post event actions to remain compliant:	<p>1. PRODUCTION MONITORING HGOR wells will be closed-in based on Agbada 1 and 2 GOR creaming curve. Gas lift to gas lifted wells closed</p> <p>2. Prompt commissioning of Agbada 2 AGG and Agbada 1 Booster compressor as soon as the various activities are completed and SoF approved.</p> <p>Daily routine flare rate when the AGG and the Booster compressor is available is circa 0.90MMscf/d which is within the limit of 1.95MMscf/d target.</p>

	Name	Date Received	Date Approved	Comments
Line Manager	Brown , Boma	02-10-2014	02-10-2014	
Production Services Manager	Akosa , Obi	02-10-2014	02-10-2014	For flaring that should start on the first, the request has been prepared too late. Considering that this is a planned activity, request should have been done pro-actively.
GM Production	Martin , David	02-10-2014	02-10-2014	

Approved by the GM, Production: Signature and Date:

Distribution List:

Signatories + Operations Manager/Senior Operations Engineer/Gas Allocation Engineers/Senior Programmer/Maintenance and Integrity Manager/Production Services Manager.

AGBADA AGG TURBINE ENGINE CHANGE-OUT (30K Inspection).

AGBADA AGG TURBINE ENGINE CHANGE-OUT (300K Inspection)

S/N	TASKS LIST	Action Party	Sep-14	Oct-14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	REMARKS	
PRE-SHUTDOWN ACTIVITIES																																					
1	Cocoon removal and inspection of new solar engine and installation kit	PMAG/Solar																																			
2	Raise transport request (80tons crane/Lowbed) to transport Engine from Solar to AGBADA AGG	PMAG																																			
3	Deliver engine to site - AGBADA AGG	Logistics																																			
4	Mobilise crane and truck to site - AGBADA AGG	Logistics																																			
5	Site preparation, planning and sorting out of tools for the job	NEMS /Asset																																			
6	Unit shutdown - allow unit to cool down for 24hrs	Asset																																			
SHUTDOWN ACTIVITIES																																					
7	Recertification of enclosure overhead gantry	NEMS																																			
8	De-energise unit and disconnect all electrical systems, Gas fuel system and fire gas system	Asset																																			
9	Detachment of turbine engine air inlet and exhaust duct below from the engine	Solar																																			
10	Detachment interconnect coupling shaft PT and G/box	Solar																																			
11	Erect structural towers /beams and lifting hoists for engine removal/head lifting	Solar/NEMS																																			
12	Engine Removal from the padlocks	Solar																																			
13	Transfer of HMD and API accessories parts from old engine to new engine, and moving new engine into package	Solar																																			
14	Removal of trolley beam assy.	Solar																																			
15	Installation of new Accessory Gearbox and detached start and lube system.	Solar																																			
16	Engine alignment PT to Gear box.	Solar																																			
17	Reconnection of all instrumentations.	Solar																																			
18	Installation of Air Inlet and Exhaust expansion ducts.	Solar																																			
19	Installation of couplings and interconnect shaft PT to Gear box.	Solar																																			
20	Installation of enclosure doors and oil removed panels, including pipings.	Solar																																			
21	Lube oil tank refill with new oil.	Solar																																			
22	Engine test crank and detergent wash.	Solar																																			
23	Site clean up and handover of unit	All																																			
24	Package systems commissioning and engine start up.	Solar																																			

LEGEND

Activity Plan
Completed activity
Shutdown period

Handwritten signature and date: 26/09/2014

Handwritten signature and date: 26/09/2014

WORK SCHEDULE

A. REMOVAL OF 3-NOS IP DEFECT (ILLEGAL BUNKERING FITTINGS) POINTS ON 12" X 6.9KM AGBADA 1 TO AGBADA AGG

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S/N	DURATION	DAY																
		15-Sep	16-Sep	17-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
1	Survey of RoW starting from Agbada 1	Completed																
1	- Agbada AGG																	
2	Mobilisation & rig-up of flushing equipment in Agbada AGG	4																
3	Rig-up of flushing equipment in Agbada 1 Booster plant	1																
4	Hook-up & flooding of gasline	1																
5	Flushing of entire line	1																
6	Isolation at Agbada booster plant & Agbada AGG plant	1																
7	Mobilisation to site/ excavation	1																
8	Sectional replacement on 3-nos illegal Connection points	2																
9	Carry out radiography																	
10	Field joint coating																	
11	De-isolation at Agbada booster plant & Agbada AGG plant	1																
12	Backfilling & demob from from defect si	2																
		14																

Note: The green shade shows the actual shut-down window

KPS Ltd

Sanjay S