

Refurbish and Install Damaged GT-1 Exhaust Duct System by Dec 2018

Background/Business Case			Potential Benefits & Measures	
<p>The Sea Eagle FPSO is designed with Five Gas Turbines generation system with total rated output of 50 MW. The power output is used to run the process system, export crude oil/compressed gas to NLNG. As well as power the Satellite Drilling Production Platforms and the RP-A. Four of the Gas Turbines are required to run the plant with full process operation and crude oil offtake.</p> <p>Currently, one of the turbines GT-1 is unavailable due to damaged exhaust system during start-up in October 2017.</p> <p>The charter identifies the opportunity with In-house resource (DIY) to discover the spares at Onne Moribund yard and carry out the repair of damaged Collector Transition duct and replace the beyond repair ducts on the system- Exhaust Silencer, Elbow, Transition duct and Bellow.</p>			<ul style="list-style-type: none">▪ Significant savings of circa \$527,528.94 from purchase of new exhaust system as result of new spares found at Onne Moribund yard.▪ Significant time saving in down time as a result of the spares discovered at Onne.▪ Significant cost saving from award of contract to carry out the repair of transition duct. And installation of the damaged exhaust system.▪ Significant time saving to carry out GT-1 Engine change out.▪ Restoration of N+1 design philosophy of the power plant.	
Project Plan			Critical Success Factors	
<u>Milestones</u>	<u>Timeline</u>	<u>Action Party</u>	<ul style="list-style-type: none">▪ Successful identifying of the appropriate spares▪ Successful repairing of the damaged Exhaust collection transition▪ Successful installation of the Silencer, Elbow, Transition duct, Bellow, Exhaust collection duct and Exhaust collector.	
▪ Critical analysis and scope of the damaged	Nov, 2017	Amaku - Closed		
▪ Confirmation of damaged ducts.	15 Dec 2017	Amaku/Ayoola -Closed		
▪ Decommissioning of damaged ducts	April 2018	Amaku - Closed		
▪ Fabrication of Silencer & Elbow skid	April 2018	Omole - Closed		
▪ Welding/Repair of Collection transition	July 2018	Iloakasia - Closed		
▪ Installation of new exhaust system	Oct 2018	Amaku		
▪ Change out of the Circular Exhaust collector	Nov 2018	Amaku		
High Level Timeline			Team Members	
<ul style="list-style-type: none">▪ LO/L1▪ L2▪ L3▪ L4▪ L5			<ul style="list-style-type: none">▪ Project Sponsor: Meshach Maichibi▪ Project Lead: Mike Amaku▪ BI Rep: Akaka Alphonsus	
			Project Members: <ul style="list-style-type: none">▪ Nelson Iloakasia▪ Shola Adeniran▪ Michael Ugochukwu▪ Adeola Omole▪ Ayoola Alayerogun	