Trakindo CAT GENERATOR PACKAGE FOR PERTAMINA TANJUNG PROJECT	S369-0001
FACTORY ACCEPTANCE TEST PROCEDURE	Date: 13 Feb 2018
FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR FACTORY, USA	Sheet 1 of 6

1.0 INTRODUCTION

The intent of this procedure is to define the objectives, scope, procedures and detailed content for the Factory Acceptance Test for two units of Caterpillar model 3516B Dynamic Gas Blending Engine Generator Sets. The factory acceptance test for all generator sets shall be carried out at Caterpillar's factory in USA immediately upon completion of the manufacture of the units.

2.0 OBJECTIVES

The primary purpose of the testing of the Caterpillar model 3516B Dynamic Gas Blending Engine Generator set packages are to demonstrate the mechanical and electrical integrity of the assembled engines and generators which have individually undergone their own tests.

Specifically, the objectives of the Factory Acceptance Test are to establish the following:

- Perform a cursory visual inspection of the complete generator sets prior to the load test;
- Generator set load tests to verify that the generator sets operate properly during the load test and all engine instrument monitoring readings are within Caterpillar's specifications;

3.0 <u>SCOPE</u>

The Caterpillar model 3516B dynamic gas blending generator sets used for the Pertamina Tanjung project are standard production generator sets from Caterpillar factory. Caterpillar has made arrangements for these generator sets to be set up at their factory test facility to carry out the factory acceptance test of these units, based on Caterpillar's standard practice.

The individual engine and generator performance tests have already been carried out by the respective equipment manufacturers prior to the generator sets assembly.

All the Cat 3516B dynamic gas blending generator sets shall be load tested consecutively in separate load test cells at Caterpillar factory. However, the generator sets shall be load tested as stand-alone units, utilizing factory test load banks (with power factor of 0.8), and the generator sets shall not be operated in parallel to each other or to the public utility.

The factory acceptance test shall only be carried out on the assembled engines and generators, and shall not include other accessories / auxiliary equipment installed, such as the actual radiators, fuel gas filter packages, etc. The main reason for this is because these accessories / auxiliary equipment shall be packaged together with the dynamic gas blending generator sets after the generator sets are delivered to customer at site. All other tests of the complete generator set packages shall be carried out at site during the

PT. TRAKINDO UTAMA SINGAPORE BRANCH

GENERATOR PACKAGE FOR PERTAMINA TANJUNG PROJECT S369-0001 FACTORY ACCEPTANCE TEST PROCEDURE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR FACTORY, USA Date: 13 Feb 2018 Precommissioning / Commissioning Test subsequently, after all equipment have installed at site. The Precommissioning / Commissioning Procedure shall be submit Vendor in a separate document later. The Cat 3516B Dynamic Gas Blending Engine Generator Sets shall be load tested Caterpillar's published rating at 1600 eKW, 2000 KVA, 6600 VAC, 1500 RPM, (based on prime rating). The fuel available for the generator set test is clean, dies and piped natural gas, which fully meets the engine fuel gas composition requirer and the engine cooling system utilizes a separate heat exchanger type cooling which is used primarily for testing purposes only. As such, there shall not b generator set power deration due to fuel gas composition issues or parasitic loss any engine driven radiator cooling for the generator set witness load test conduc Caterpillar factory. 4.0 GENERATOR SET TESTS 4.1 TEST EQUIPMENT The Factory Acceptance Test at Caterpillar factory shall take place using the fol equipment: • Two (02) units of Caterpillar Model 3516B Dynamic Gas Blending B Generator sets, each rated at 1600 eKW, 2000 KVA, 6600 VAC, 1500 RF Hz, (based on prime rating);		Doc No. :	DYNAMIC GAS BLENDING ENGINE			
Trakindo PERTAMINA TANJUNG PROJECT FACTORY ACCEPTANCE TEST PROCEDURE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR Date: 13 Feb 2018 Sheet 2 of 6 Precommissioning / Commissioning Test subsequently, after all equipment have installed at site. The Precommissioning / Commissioning Procedure shall be submit Vendor in a separate document later. Date: 13 Feb 2018 Sheet 2 of 6 The Cat 3516B Dynamic Gas Blending Engine Generator Sets shall be load testec Caterpilar's published rating at 1600 eKW, 2000 KVA, 6600 VAC, 1500 RPM, (based on prime rating). The fuel available for the generator set test is clean, dies and piped natural gas, which fully meets the engine fuel gas composition require and the engine cooling system utilizes a separate heat exchanger type cooling which is used primarily for testing purposes only. As such, there shall not b generator set power deration due to fuel gas composition issues or parasitic loss any engine driven radiator cooling for the generator set witness load test conduc Caterpillar factory. 4.1 TEST EQUIPMENT The Factory Acceptance Test at Caterpillar factory shall take place using the fol equipment: • Two (02) units of Caterpillar Model 3516B Dynamic Gas Blending F Generator sets, each rated at 1600 eKW, 2000 KVA, 6600 VAC, 1500 RF Hz, (based on prime rating); • Caterpillar factory's standard Load Test Cells, inclusive of all test contro monitoring equipment; • Test Load Banks (0.8 Power Factor) and temporary power cables; • Diesel fuel and piped natural gas available at Caterpillar factory; • Caterpillar's standard cooling system, and other auxiliary equipm		S369-0001				
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All test records shall be electronically recorded and shall be made available to customer for review upon completion of all tests.	the	made available to the	•			

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		DYNAMIC GAS BLENDING ENGINE	Doc No. :		
Trakind	D CAT	GENERATOR PACKAGE FOR	S369-0001		
TTUKINU			Date: 13 Feb 2018		
		FACTORY ACCEPTANCE TEST PROCEDURE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR	Sheet 3 of 6		
		FACTORY, USA			
	4.2.1	Pre-Test Inspection Prior to the start-up of the generator sets, some tim cursory visual inspection of both generator sets and			
	4.2.2	2.2 Generator set Load Test The Generator Set load tests shall be witnessed by Customer, with all results electronically recorded. The duration of the load test shall follow Caterpillar's standard factory procedure.			
	The two generator set load tests shall be conducted consecutively in differ load test cells. All generator set load tests shall be conducted at 0.8 power factor.				
	4.2.3	Post-Test Inspection Upon completion of all generator set tests, some time may be allocated for a cursory visual inspection of all generator sets.			
5.0 <u>RE\</u>	/IEW AI	ND ACCEPTANCE			
Upon completion of the Cat 3516B Dynamic Gas Blending Engine Generator Set tests, all test records shall be compiled and submitted to the Customer for their review and acceptance. All comments, if any, shall be listed in the minutes of meeting and/or punch list during the review of the results. If there are any outstanding issues that cannot be resolved within the witness test period, Trakindo shall inform the Customer when the appropriate rectification works will be carried out, ready for final inspection and close out (to be performed either in Singapore or at site).					
On the successful or agreed conclusion of the Cat 3516B Dynamic Gas Blending Engine Generator Set tests, all test records shall be signed by Caterpillar, Trakindo and customer, and these shall be minuted down in the meeting minutes.					
ΔΤΤ	асние	NTS			
<u>A11</u>	ATTACHMENTS:				

- A PERFORMANCE TEST ACTIVITY SCHEDULE (AT CATERPILLAR FACTORY) B ATTENDANCE SHEET (DAY $1 27^{TH} 29^{TH}$ Mar 2018)

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Trablada 007	DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGE FOR	Doc No. : S369-0001			
Trakindo CAT	PERTAMINA TANJUNG PROJECT	Date: 13 Feb 2018			
	FACTORY ACCEPTANCE TEST PROCEDURE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR FACTORY, USA				
	ATTACHMENT A				
FACTORY ACCEPTANCE TEST ACTIVITY SCHEDULE (AT CATERPILLAR FACTORY)					
27 th Mar 2018					
Arrive in Chic	ago, USA				
28 th Mar 2018					
0630 to 0700	hrs - Arrive at Caterpillar factory and Introduction				
0700 to 1200	hrs - Generator set Performance Testing				
1200 to 1300	hrs - Lunch Break				
1300 to 1600 hrs - Review Load Test Results, Q&A and Debrief					
29 th Mar 2017					
0800 to 1200 hrs - Contingency Plan					
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	FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR	Sheet 5 of 6
	FACTORY, USA	

ATTACHMENT B

ATTENDANCE SHEET (FOR 27TH – 29TH Mar 2017)

No.	Name	Designation	Organization	Sign
1				
2				
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Trakindo CAT°	DYNAMIC G GENERA PERTAMIN	Doc No. : S369-0001		
	FOR DYNAMI GENERATOR P	FACTORY ACCEPTANCE TEST PROCEDURE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR PACKAGES AT CATERPILLAR FACTORY, USA		Date: 13 Feb 2018 Sheet 6 of 6
FACTORY ACCEPTANCE TEST CERTIFICATE FOR DYNAMIC GAS BLENDING ENGINE GENERATOR SETS AT CATERPILLAR FACTORY, USA				
DYNAMIC GAS BLENDING ENGINE GENERATORS – 2 UNITS OF CATERPILLAR MODEL 3516B DYNAMIC GAS BLENDING GENERATOR SETS				
PROJECT		:	PERTAMINA TAN	JUNG PROJECT
BUYER	BUYER : PT. BUDI ARTA SAKTI / RAYCO TRADING CO. PTE. LTD			
COMPANY		:	PT. PERTAMINA	EP
BUYER P.O. NO. : 4500168578				
TEST LOCATION : Caterpillar, Inc. 3701 South Street, Lafayette USA, IN47905				et, Lafayette
TESTING DATE : 28 th and 29 th Mar 2018				
The Performance Testing and Acceptance Test for the Gas Engine Generator Sets at Caterpillar factory, USA have been performed according to Vendor's approved Test Procedure. Attached are the record and documentation. CONDUCTING PARTY REPRESENTATIVE				
PT. TRAKINDO UTAMA				
WITNESSING PARTIES				
PT. P	PT. PERTAMINA EP PT. BUDI ARTA SAKTI			
	ТВА		SKK M	IGAS
PT. TRAKINDO UTAMA SINGAPORE BRANCH				