



PROJECT TITLE:	PETRO-CANADA HORIZON PROJECT
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VENDORS NAME:	Dresser-Rand
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DOCUMENT TITLE:	Arrangement - Coupling HS
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VENDORS DOCUMENT NO:	CPL-0NK-004-001
VENDORS REVISION NO:	0
DATE SUBMITTED	7/3/2008

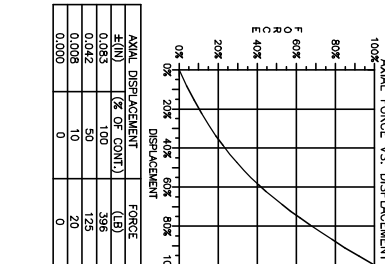
<b>PETRO-CANADA Supplier Document Review</b>	
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<input checked="" type="checkbox"/> 1	Work May Proceed
<input type="checkbox"/> 2	Revise & Resubmit. Work may Proceed subject to incorporation of changes
<input type="checkbox"/> 3	Revise & Resubmit. Work may not Proceed
<input type="checkbox"/> 4	Review not required. Work may proceed
By: <b>MARVIN ISHMAEL</b>	Date: <b>28TH JULY 2008</b>
Discipline: <b>MECHANICAL</b>	
Equipment No. <b>J-71011</b>	
MR No. <b>7 1 0 M R J 0 0 0 1</b>	
1017	<b>V P — B 0 2 — 7 1 0 — J — 0 1 A C — 0 0 0 8 0 0</b>

OPERATING CONDITIONS	
NORMAL	2,946 HP @ 10,666 RPM
DRIVER RATED	3,350 HP @ 10,666 RPM
MIN/MAX SPEED	10,666/10,756 RPM
RMP SPEED	10,756 RPM
DRIVER RATED TORQUE	20,977 IN-LB
NORMAL TORQUE	17,408 IN-LB
SELECTION TORQUE (INCLUDES 1.50 S.F. ON DRIVER RATED)	31,465 IN-LB

COUPLING RATING	
MAX CONTINUOUS TORQUE	47,000 IN-LB
PEAK TORQUE	56,000 IN-LB
MAX MOMENTARY TORQUE	75,000 IN-LB

MASS ELASTIC DATA	
COMPONENT WEIGHT	
HUB (BORED, INCL. 1/2 DISC PACK)	4.2 LB
ADAPTER / SLEEVE (INCL. 1/2 DISC PACK)	12.3 LB
SPACER (INCL. 1/2 DRIVING DISC PACK)	29.8 LB
TOTAL COUPLING WEIGHT (BORED)	140 LB-IN <sup>2</sup>
MOMENT OF INERTIA (IN <sup>2</sup> )	1.3 X 10 <sup>8</sup> IN-LB/RAD
TORSIONAL STIFFNESS (BASED ON 1/3 SHAFT PENETRATION)	650 IN-LB/DEG (DRIVING)
DISC PACK ANGULAR STIFFNESS	1,270 IN-LB/DEG (DRIVEN)
LATERAL CRITICAL SPEED (SIMPLY SUPPORTED TUBE)	34,100 RPM

MISALIGNMENT	
MAX CONTINUOUS	0.20 DEG
NOTE: TRANSIENT AXIAL MISALIGNMENT CAN BE 133% OF MAX CONTINUOUS	
DISC PACK & TO & DISTANCE	
MAX CONTINUOUS PARALLEL OFFSET	0.089



PRODUCTION DRAWINGS	
DRAWING NO.	DESCRIPTION
CG89853	SHIM PACK
CG89854	DRIVER DISC
CG89855	DRIVER DISC
CG89856	DRIVER DISC
CG89857	DRIVER DISC
CG89858	DRIVER DISC
CG89859	DRIVER DISC
CG89860	DRIVER DISC
CG89861	DRIVER DISC
CG89862	DRIVER DISC
CG89863	DRIVER DISC
CG89864	DRIVER DISC
CG89865	DRIVER DISC
CG89866	DRIVER DISC
CG89867	DRIVER DISC
CG89868	DRIVER DISC
CG89869	DRIVER DISC
CG89870	DRIVER DISC
CG89871	DRIVER DISC
CG89872	DRIVER DISC
CG89873	DRIVER DISC
CG89874	DRIVER DISC
CG89875	DRIVER DISC
CG89876	DRIVER DISC
CG89877	DRIVER DISC
CG89878	DRIVER DISC
CG89879	DRIVER DISC
CG89880	DRIVER DISC
CG89881	DRIVER DISC
CG89882	DRIVER DISC
CG89883	DRIVER DISC
CG89884	DRIVER DISC
CG89885	DRIVER DISC
CG89886	DRIVER DISC
CG89887	DRIVER DISC
CG89888	DRIVER DISC
CG89889	DRIVER DISC
CG89890	DRIVER DISC
CG89891	DRIVER DISC
CG89892	DRIVER DISC
CG89893	DRIVER DISC
CG89894	DRIVER DISC
CG89895	DRIVER DISC
CG89896	DRIVER DISC
CG89897	DRIVER DISC
CG89898	DRIVER DISC
CG89899	DRIVER DISC
CG89900	DRIVER DISC

DO WHAT YOU SAY	
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LIST OF MATERIAL AND DRAWINGS FOR ONE COUPLING	
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