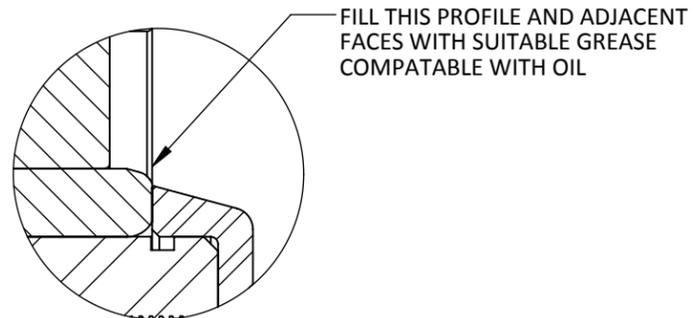


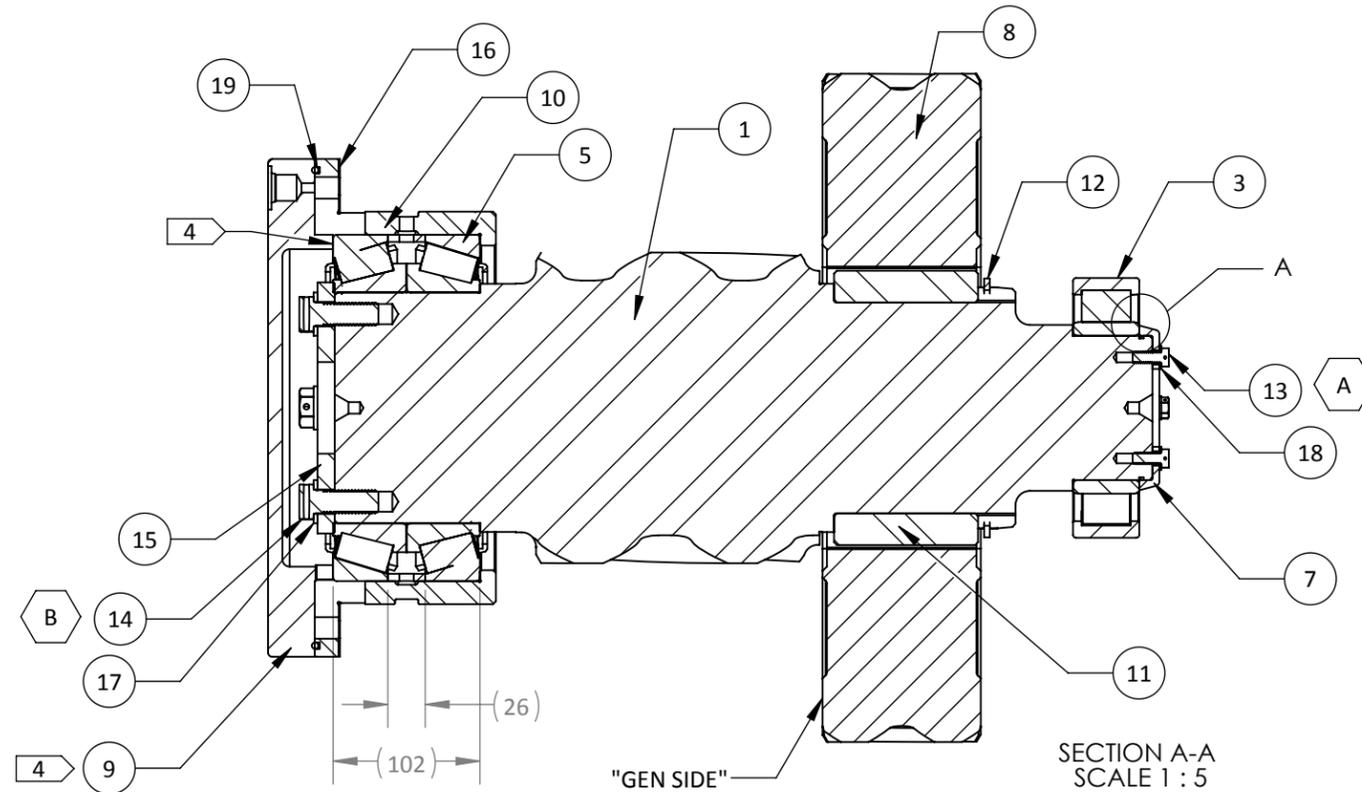
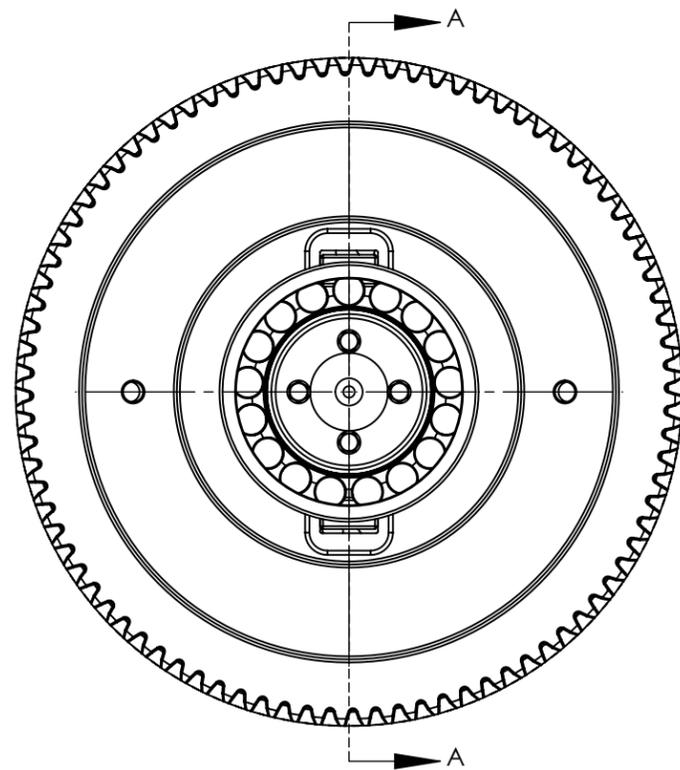
TORQUE VALUES (LUBED):

Ⓐ ITEM 7: 27.3 Nm

Ⓑ ITEM 2: 233.0 Nm



DETAIL A
SCALE 1 : 1



SECTION A-A
SCALE 1 : 5

ITEM NO.	PART NUMBER	DESCRIPTION	Default/ QTY.
1	90097	WASHER, FLAT,PLAIN, STEEL,M8	4
2	90105	CAPSCREW, DRILLED HEX HEAD, M16-2 x 45 LONG, GRADE 8.8	4
3	90651	WASHER, FLAT, PLAIN, STEEL, M16	4
4	93229	BEARING HSS - A	1
5	93236	SEAL, O-RING, 275mm x 4.5 m WD	1
6	97033	EXTERNAL SNAP RING FS-170	1
7	98225	HEX HD CAPSCREW, M8x20, DRILLED HD, GRADE 5	4
8	251404	IM SHAFT - TRB END PLATE KEEPER	1
9	251405	GASKET BEARING COVER - IM SHAFT	1
10	254507	INTERMEDIATE SHAFT - REWORK	1
11	254509	IM SHAFT - LEADING END CAP	1
12	254510	GEAR, HIGH SPEED SHAFT	1
13	254511	RING ADAPTOR, IM SHAFT	1
14	254518	IM SHAFT END COVER	1
15	254715	DRIVE KEY, 40 x 22 x 100	2
16	254788	BEARING ASS'Y, INTERMEDIATE SHAFT	1

NOTES:

1. APPLY LOCTITE ON ALL THREADS PER MFG. INSTRUCTIONS
2. APPLY GASKET SEALANT ON ITEM 9 (BOTH SIDES) AND ITEM 13 AT ASSEMBLY.
3. WIRE TIE ITEMS #2 AND #7 AFTER APPLING PROPER TORQUE TO BOLTS. USE \varnothing 1mm 302/304 STAINLESS STEEL WIRE.
4. FOR END COVER, ITEM 14, GRIND OR SHIM AT INTERFACE TO ITEM 16 DURING FINAL ASSEMBLY TO SPECIFICATION ON DRAWING 254719
5. FIT ALL PARTS ON FINAL ASSEMBLY WITH GEAR CASING

MAKE FROM MODEL:1509-AS-004-B

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE: REVIEWED PER 1509-ENC-004	CPS	1/14/13	
B	CHANGE TO TIMKEN BEARING ASSEMBLY, UPDATE BORDER	CPS	3/15/13	
C	UPDATE PER 1509-DDS-024-B. RELEASE FOR PRODUCTION	CPS	4/18/13	
D	REPAIR DANGLING DIMENSION LEADER	JMG	10/18/13	
E	CHANGES REQUESTED PER MANUFACTURER DRW REVIEW	CPG	12/12/13	
F	CHANGES PER MFG REVIEW, REFER 1509-ECN-026	CPG	11/23/15	

REPORT ERRORS & CHANGES
REMOVE ALL BURRS AND SHARP EDGES
DIMENSIONS ARE IN MILLIMETERS.
UNSPECIFIED TOLERANCES:

DECIMALS: FINISH: ANGLES:

X. ±1.0 6.3 $\sqrt{\mu\text{m Ra}}$ $\leq \pm 0.5^\circ$
.X ±0.5
.XX ±0.25

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OTHER DRAWINGS OR MACHINERY

DRAWN CPS DATE: 1/14/13
CHECKED NJB THIRD ANGLE PRJ

National Renewable Energy Laboratory

TITLE:
INTERMEDIATE SHAFT ASSEMBLY

SIZE DWG. NO. REV
B 254549 **F**

SCALE: 1:10 WEIGHT: 251.498 kgs SHEET 1 OF 1