PTB SALES
1331 Mountain View Circle
Azusa, CA 91702

DATE: *9/1/2020*

CRYO-PUMP FINAL TEST REPORT
QUALITY ASSURANCE- FINAL INSPECTION AND TEST CERTIFICATION

CUSTOMER:	*FLIPCHIP INTERNATIONAL*	**MODULE S/N:**	*L05048771*
WORK ORDER:	*SO117124-001*	**MODULE P/N:**	*8113132G001*
PUMP MODEL:	*OB 350W*	**SOFTWARE REV:**	*PF03.06*
PUMP S/N:	*1703CHE12439*	**PUMP RUN HOURS:**	*0*
PUMP P/N:	*8124390G001*	***OBIS Only* SN AMC:**	*NA*
MODULE TYPE:	*Waterpump*	***OBIS Only* PN AMC:**	*NA*

FINAL TEST DATA

	TEST VALUE	TEST LIMIT	TEST STATUS
2nd STAGE TEMP:	*NA*	*NA*	NA
1st STAGE TEMP:	*37.00 K*	*</= 60.00K*	PASS
BASE PRESSURE:	*2.36E-6*	*</ 8.00E-6*	PASS
RATE OF RISE:	*10*	*</= 10 mtorr/min*	PASS
RATE OF RISE CYCLES:	*1*	*</= 20*	PASS
TIME TO 17°K	*35.43*	*<= 120.00 min*	PASS
TEMP. CONTROL TEST SETPOINT	*107.0 K*	*106 K </= T1 </= 107 K*	PASS
TEMP. CONTROL TEST 2nd STAGE	*NA*	*NA*	NA
RS232 INTERFACE OPERATION			PASS
LEAK CHECK		*<6.5 X10E-8 atm cc/sec*	PASS

NOTES: _____ **TESTED BY:** AF

QUALITY ASSURANCE INSPECTION

NO LOOSE PARTS/SCREWS	☑	CUSTOMER REGEN PARAMETERS SET	☑
APPEARANCE	☑	ON-BOARD CONTROLS HRS. RESET	☑
CORRECT LABELS APPLIED	☑		
FITTINGS CAPPED	☑		
INLET COVERED	☑		
CUSTOMER PARTS ATTACHED	☑		