g		GE Energy	,	Functional T	esting Spe	ecification		
	Parts & Repa Louisville, KY	ir Services		LOU-GED-DS3800HLNC				
	,		ire for a DS3800	HLNC card				
DOCUM	MENT DEVISION STATUS	Determined by the last e	entry in the "PEV" a	nd "DATE" column				
REV.	WENT REVISION STATUS	DESCRIPTION	indy in the NEV a		IGNATURE	REV. DATE		
Α	Transferred from pa	per to electronic forma	ıt	J.	Wychulis	7/15/2011		
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<b>DATE</b> 7/15/2	2011	DATE	DATE		<b>DATE</b> 7/15/2011			

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	Louisville, KY	

#### 1. SCOPE

**1.1** This is a functional testing procedure for a DS3800HLNC.

#### 2. STANDARDS OF QUALITY

**2.1** Refer to the current revision of the IPC-A-610 standard for workmanship standards.

#### 3. APPLICABLE DOCUMENTS

- **3.1** The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.
  - **3.1.1** Check board's electronic folder for more information

#### 4. **ENGINEERING REQUIREMENTS**

- 4.1 Equipment Cleaning
  - **4.1.1** Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to site specific SRA's for cleaning guidelines.
- 4.2 Equipment Inspection
  - **4.2.1** Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:
    - 4.2.1.1 Wires broken, cracked, or loosely connected
    - 4.2.1.2 Terminal strips / connectors broken or cracked
    - 4.2.1.3 Components visually damaged
    - **4.2.1.4** Capacitors bloated or leaking
    - 4.2.1.5 Solder joints damaged or cold
    - 4.2.1.6 Circuit board burned or de-laminated
    - 4.2.1.7 Printed wire runs / Traces burned or damaged

#### 5. EQUIPMENT REQUIRED

**5.1** The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		FVE Module
1		See equipment section in the following page scanned test

BOOHLNC

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## 6. <u>Testing Process</u>

# 6.1 Page 1 of scanned HLNC instruction

y.J	HENC. FUN PONCTIONAL FEST INSTRUCTIONS						
9.1							
	THI	THIS DOCUMENT DESCRIBES THE SETUP AND FUNCTIONAL TEST PROCEDURE FOR PART US 3000HLNC. PRIOR TO PERFORMING THIS TEST, THE PART SHOULD HAVE PASSED TEST OF THE 2270.					
y.2	SPECIAL PEST EGUIPMENT						
	1. FUNCTIONAL TEST MODULE: FVE						
	2.	TEST SUPPORT CARDS AND SETUP. (NOTE: HLNC IN 20 OR 25 OR BOTH CAN BE BOARD UNDER TEST. USE SAME PROCEDURE FOR TESTING EITHER ONE BOARD OR THO BOARDS AT A TIME.)					
		SLOT 28	HMPJ	ROM SET "SU_oo	_MORITOR_RA	M_TE"	
		SLOT 2D	HLAC	PROM "PSP3815P PROM "PSP3615P J1-J3,J5-J9 J4 J10-J13	LNCOZAB" I		
		SLOT 2C	nL14D	75-79 75-79	bT# #F# 114		
		SLuf 2F	нЕнс	260A "PSP3615P PROM "PSP3815P J1-J3,J0-J9 J4,J5 J10-J13	'LNCO2AB" IA	SOCKET UZO	12
		SLOT 2E	HLND	10 13-10 11*15	070 020 111		
			HAAC#1	JA1-JA3 JB1-JB3 J56,D J56,E	ognD⊲ ognD⊲ ognD⊲		
		X	Hi≜AC#2	JA1~JA3 Ju1~Jb3 J58,D J5C,E	"T" "GND" OPEN		
9.3	POWER SUPPLY REGULERENTS						
		S TEST IS HI		SUMING THE USE	OF PONER 50	PPLY TYPE	
9.4	INITIAL SETUP						
	1.	PLUG CARDS	IN MODUL	E PER SECTION 9	. 2		
	2.	CABLE TYPE	CONNECT1	045. Fans	TO		

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# 6.2 Page 2 of scanned HLNC instruction

	20 20 20 50 50 TH * KS	MER CASLE MAN MESON MAN CASLE MAN CASLE MOLL MODEM (DS38)	HMAC#2-JE HMAC#1-JE COMPUTER TERM.			
		ER IN SPDE POSIT		COMMECTED TO FIM	PJ.	
9.5	1651 0	EFINITIONS AND S	PECIAL NOTES		_	
y.0	I. AF		TLIVE HAPG = slot		2C connected) _	
	2. Ar	TER CR2 COMES ON	ON THE MAPJ, TYP	E "BB" (ARBO.)	:	
	3. TY	PE "S#4000," (Ap	DA-) SW4000, A55A	-75F7		
	4. I're "/rr7" Thên (REIUMA) AND MATCH FOR THE FOLLOWING TO OCCUR AT THE HING IN SLOT 2D.  - IMON LED ON (AFTER ABOUT TO SECONDS).  - DIAG LED ON FOR ABOUT 5 SECONDS AND THÊN GOES OUT.  - AFTER DIAG LED GOES OUT, CONFIG LED COMES ON AND BLINKS.  - IMOK LED REMAINS ON					
	o. TY	PE "SWCOOD," (A5:	DA) SC1000, 155A-1	FF7		
	<ul> <li>TYPE "'/FF7" THEN (RETURN) AND THEN VEHIFY THAT AFTER APPROXIMATES 5 SECONDS THE IMOK LED'S ON BOTH HENC'S ARE ON. (OTHER HENC LED' OFF)</li> </ul>					
	7. REMOVE POWER.					
	8. IF CARDS CAME INTO TEST WITHOUT TEST ROMS THEN REMOVE TEST PROM FROM HENC UNDER TEST (SLOT 20). (OR BOTH HENC'S IF TWO CARDS TESTED AT ONCE.)					
	END OF TEST					
	TEST INSTRUCTION REVISION STATUS					
v EA	TINI	DESCRIPTION OF			DATE COMPLETE	
0	NEV NEV	rindi Made For VARIOUS CHANGES MEMOVED MEREME			28-APR-80 03-MAY-80 20-5E2-80	

## 6.3 \*\*\*TEST COMPLETE \*\*\*

## 7. Attachments

#### 7.1 None at this time