

JET PROPULSION LABORATORY

INTEROFFICE MEMORANDUM

TES DFM #976-4.1.1

10/13/00

TO : Design File
FROM : Ed Miller
SUBJECT: PCA-C HRCR Completion
REF: TES Design File Memo #937-4.2.1

The HRCR for the PCA-C Power Assembly, ref. des. 2044PS03, was completed on 07/13/2000. All action items generated at that review have now been closed.

A copy of the completed and signed HRCR form is attached, and is included with the End Item Data Package (EIDP). A hard copy of the EIDP may be found in the TES project files, in the I&T files, and in the JPL Vellum Files.

Electronic copies of all TES EIDP's are being made by optically scanning the packages. These electronic copies will be stored on compact disks which will be available from the TES project office upon completion of the scanning.

cc: TES Design File

TES Hardware Requirements Certification Review

Assembly/Subsystem		Cognizant Engineer		Phone		Section		Date	
TES POWER ASSEMBLY C (PCAC)		SCOTT NOLTE		354-9724		387		07/13/2000	
Ref. Des.	Drawing No.	Dwg. Rev.	Serial No.	Nomenclature		Final IR	Op. Time or Cycles (if avail.)		Mass (Kg)
2044PS 03	2017960	A	FLT01	POWER CONDITIONING ASSEMBLY C		900986 (Open)	332 Min		1.18Kg (w/o conformal coat)
Check applicable answer and give necessary explanation in remarks column			Y e s	N o	N / A	Remarks		Data Attachments	Signature Approval & Date
1. Are all drawings and specifications complete, approved, released and frozen ?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			18. Latest Top Assembly Drawings <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None	Cognizant Engineer <i>SNOLTE</i>
2. Do the released drawings and specifications reflect all approved changes?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			19. List of open ECRs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Cognizant EM <i>EM</i>
3. Is hardware identical to other hardware delivered? If no, provide difference list.			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			20. Waivers <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Materials Engineer <i>Scott Embury</i>
4. Does the hardware meet the requirement of its FRs, specifications, waivers and/or ICDs ? If no, provide difference list. (See Item 28 for reference.)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			21. Open MRBs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	QA Engineer <i>John Kinsky</i>
5. Have all discrepancies and MRBs been dispositioned and agreed to by Engineering/ QA?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			22. Open Problem Logs & P/FRs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Mission Assurance Mgr. <i>Dr. J. Powell</i>
6. Has complete as-built list information been submitted to PDMG?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			23. Open Problem Logs & P/FRs on sim. HW and/or related S/W <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	System Engineer <i>Scott Embury</i>
7. Are required design analyses complete, up to date, approved and archived? Attach identifying list per Item 29.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pending review of Parts Specialist. <i>done EM</i>		24. Signed Environmental Test Authorization & Summary (ETAS) <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Integration & Test Mgr. <i>Scott Embury</i>
8. Have all required environmental qualification tests & analyses called for in D-13144, Table 5.2 been completed?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			25. Assy/ Subsystem Power Data Sheet <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None	Instrument Manager <i>Scott Embury</i>
9. Is all required assembly and/or subsystem level functional testing completed?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			26. Shortage List <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Other
10. Have applicable telemetry calibration data been submitted to the System Engineer?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			27. Operational Constraints/diosyncrasies <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None	Other
11. Have all required single point failure actions been taken?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			28. Requirements Verification Matrix (reference Item 4) <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None	Other
12. Have all required mass data been submitted?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			29. Design analyses completed, approved & archived (per Item 7) <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None	Other
13. Have all stress, corrosion & flammable material requirements been met ?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Other
14. Have all piece parts, processes and materials been approved by JPL?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pending review of Parts Specialist. <i>done EM</i>			Other
15. Has hardware been baked out, cleaned and met all contamination control requirements?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bake out and cleaning will be performed after testing in the IEM.			Other
16. Are all required shipping containers, shipping procedures, special handling procedures, AHSE and SE ready?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Other
17. Is this hardware acceptable for flight?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Conformal coating and bake out have not been done. The hardware is acceptable for integration into the PF IEM.			Other

7-13-00

7-B-00