

CONTRACT C WORKSHEET

ECP Required YES

PRON P48AOIX4 M131A055M1 AMC 1 AMSC G ATC ARB5D

TPDL SM-D-804987 TDPL DATE 09/10/98

NSN 5998010636378 NOMENCLATURE CIRCUIT CARD ASSEMBLY

ENGINEERING EXCEPTIONS : The following engineering exceptions apply to this procurement action(s):

| DOCUMENT | DELETE | REPLACE WITH |
|-------------|-------------|---|
| SM-C-773541 | QQ-C-530 | ASTM B197 |
| SM-C-773541 | QQ-P-35 | ASTM A 967-96 |
| SM-C-773541 | MIL-G-45204 | AMS 2422 or/and ASTM B488, TYPE 3 CLASS 1.25 |

All soldering and soldering related operations shall be performed in accordance with a detailed soldering process plan to be developed and maintained by the contractor. The plan shall include the procedures to be used for all soldering and soldering related operations (i.e. hand soldering, tinning, solderability testing or verification, automated soldering, inspection, process controls). Each procedure shall describe the operation in sufficient detail to ensure that the performance requirements for the item being manufactured are met. As a minimum, each procedure shall include the process, tools, equipment, materials and acceptance criteria used for the operation. The soldering process plan shall be made available to the cognizant government technical agency.

In lieu of developing a soldering process plan, the contractor may elect to utilize ANSI/IPC/J-STD-001, Class 3*, with the cleanliness designator as indicated below:

| Flux Type in use | Cleanliness Designator** |
|---------------------------|--------------------------|
| ----- | ----- |
| Low Residue/No Clean Flux | C02 |
| Rosin Based Flux | C22 |
| (Continued On Page 2) | |

GFM/GFE: DRAWING NO.

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MYLARS REQUIRED (Check one): Y N

CERTIFICATION SIGNATURE(S)/CONCURRENCE

ENG

| | | | | |
|------------------------|----------------------|---------------|----------------------|----------------------|
| <u>BARRY KULLACK</u> | <u>BARRY KULLACK</u> | <u>9/4/98</u> | <u>AMSTA-AR-ECC</u> | <u>880-6845 A</u> |
| <i>Type/Print Name</i> | <i>Signature</i> | <i>Date</i> | <i>Office Symbol</i> | <i>DSN Telephone</i> |

LCSE

| | | | | |
|------------------------|----------------------------|----------------|----------------------|----------------------|
| <u>LAWRENCE RAUTEN</u> | <u>LAWRENCE RAUTENBERG</u> | <u>8/31/98</u> | <u>AMSTA-AR-LCS</u> | <u>724-3536</u> |
| <i>Type/Print Name</i> | <i>Signature</i> | <i>Date</i> | <i>Office Symbol</i> | <i>DSN Telephone</i> |

PKG

| | | | | |
|------------------------|-----------------------|---------------|----------------------|----------------------|
| <u>EUGENE FARRELL</u> | <u>EUGENE FARRELL</u> | <u>9/2/98</u> | <u>AMSTA-AR-AEP</u> | <u>880-2133</u> |
| <i>Type/Print Name</i> | <i>Signature</i> | <i>Date</i> | <i>Office Symbol</i> | <i>DSN Telephone</i> |

PAD

| | | | | |
|------------------------|-------------------|---------------|----------------------|----------------------|
| <u>JOHN DUDAS</u> | <u>JOHN DUDAS</u> | <u>9/3/98</u> | <u>AMSTA-AR-EQA</u> | <u>880-6541</u> |
| <i>Type/Print Name</i> | <i>Signature</i> | <i>Date</i> | <i>Office Symbol</i> | <i>DSN Telephone</i> |

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CONTRACT C WORKSHEET (Continued)

ENGINEERING EXCEPTIONS (CONTINUED)

Water Soluble Flux

C22

*Class 3 High Performance Electronic Products *

Includes equipment for commercial and military products where continued performance or performance-on-demand is critical. Equipment downtime cannot be tolerated, end-item use may be uncommonly harsh, and the equipment must function when required, such as life support systems and critical weapons systems.

**ANSI/IPC/J-STD-001 Rev A, paragraph 8.3.2 and sub-paragraphs.

| DOCUMENT | DELETE | REPLACE WITH |
|-------------|-------------------|---|
| SM-D-804986 | MIL-STD-275 | IPC-D-275 |
| SM-D-804987 | " | " |
| SM-D-804987 | MIL-STD-454 Req.5 | " Solder in accordance with best commercial practice to ensure compliance with drawing or specification requirements as applicable. " |

Master patterns MP-25793-1, MP-25793-2, and MP-25793-3 will be supplied by Fort Monmouth. See drawing SM-D-804986, note 1.