ENGINEERING CHANGE PROPOSAL
(SHORT FORM)
(See MIL-STD-481 for instructions)

DATE *(YYYYMMDD)* 20050425

Form Approved
OMB No. 0704-0188

PROCURING ACTIVITY NUMBER
N/A

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1. ORIGINATOR NAME AND ADDRESS
Ramanathan Ramaswamy
12350 Research Parkway
Orlando, FL 32826-3276

2. CONTRACT NUMBER AND LINE ITEM

3. PROCURING CONTRACTING OFFICER
CODE | TEL

4. TITLE OF CHANGE
Table D1 Delay Value Tolerances

5. ECP NUMBER	REV	AMEND	6. CAGE CODE	7. CLASS OF ECP	8. JUST.CODE	9.PRIORITY
MCC2004005	1					High

10. SPECIFICATIONS AFFECTED

CAGE CODE	SPECIFICATION / DOCUMENT NO.	REV
	PMT 90-S002	I

11. DRAWINGS AFFECTED

CAGE CODE	NUMBER	REV

12. CONFIGURATION ITEM NOMENCLATURE / TYPE DESIGNATION / WEAPON SYSTEM CODE
N/A

13. IN PRODUCTION
[ ] YES [X] NO

14. LOWEST ASSEMBLY AFFECTED

NOMENCLATURE	PART NO.	NSN
N/A		

15. DESCRIPTION OF CHANGE (Attach a document showing [a] existing document paragraph, figure, or table and [b] modified document paragraph, figure, or table with the change incorporated).

Modify TableD1 Delays D1 and D2 from 1600 to 1600 +/- 20.
Modify the note at the bottom of the page and reference multiples of 124.98us (i.e. 1624.74us) and delete reference to the other two values (166.67, 208.3) as they do not have a multiple that falls within the tolerances specified.
Remove extra '(' from Table D1.

16. NEED FOR CHANGE

This change will allow some required flexibility (tolerance) to the fixed delay values. Some range would make a system design more achievable by a designer/producer. Also, the note at the bottom of the page should only reference multiples of 124.98us (i.e. 1624.74us) as the other two values do not have a multiple that falls within the tolerances specified. Also, need to specify what older systems used 479-510us.

17. EFFECT ON ASSOCIATED EQUIPMENT

18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER

19. EFFECT ON PRODUCTION DELIVERY SCHEDULE

20.RECOMMENDED RETROFIT EFFECTIVITY

21. ESTIMATED KIT DELIVERY SCHEDULE

22. ESTIMATED COST/SAVINGS

23. SUBMITTING ACTIVITY AUTHORIZING SIGNATURE
Ramu Ramsaswamy Signed 4/8/2004

23.a. TITLE
Engineer, PEOSTRI EL

24. APPROVAL/DISAPPROVAL a. RECOMMENDED [X] APPROVAL [ ] DISAPPROVAL

b. APPROVAL	c. GOVERNMENT ACTIVITY	SIGNATURE	DATE *(YYYYMMDD)*
[X] APPROVED [ ] DISAPPROVED	PEOSTRI 12350 Research Parkway Orlando, FL 32826-3276	Perry R. Smith, LTC AD PMLTS	20041108
d. APPROVAL	e. GOVERNMENT ACTIVITY	SIGNATURE	DATE *(YYYYMMDD)*
[ ] APPROVED [ ] DISAPPROVED			

15a. Existing document paragraph, figure, or table.

TABLE D1: MILES CODE PARAMETERS FOR DIRECT FIRE ROUTINE

MILES Code No.	No. of Heavy Weapon Hit Words (K) /Round	Delay ((D1) µs [1]	Light Weapon Hit Code No.	No. of Light Weapon Hit Words (M) /Round	Delay (D2) µs 1	Heavy Weapon Near Miss Code No..	No. of Heavy Weapon Near Miss Words /Round	Delay (D3) µs 1	Light Weapon Near Miss Code No.	No. of Light Weapon Near Miss Word /Round
00	16	0	-	0	0	0	0	0	0	0
01	8	1600	27	128	1600	28	128	-	-	-
04	8	1600	27	128	1600	28	128	-	-	-
05	4	1600	27	128	1600	28	128	-	-	-
06	8	1600	27	128	1600	28	128	-	-	-
10	8	1600	27	128	1600	28	128	-	-	-
11	4	1600	27	128	1600	28	128	-	-	-
12	8	1600	27	128	1600	28	128	-	-	-
13	8	1600	27	128	1600	28	128	-	-	-
14	8	1600	27	128	1600	28	128	-	-	-
15	8	1600	27	128	1600	28	128	-	-	-
16	8	1600	27	128	1600	28	128	-	-	-
17	8	1600	27	128	1600	28	128	-	-	-
18	8	1600	27	128	1600	28	128	-	-	-
19	8	1600	27	128	1600	28	128	-	-	-
20	8	1600	27	128	1600	28	128	-	-	-
21	8	1600	27	128	1600	28	128	-	-	-
22	8	1600	27	128	1600	28	128	-	-	-
23	8	1600	27	128	1600	28	128	-	-	-
24	0	0	24	4	-	-	-	1600	29	128
25	8	1600	27	128	1600	28	128	-	-	-
26	8	1600	27	128	1600	28	128	-	-	-
27	0	0	27	4	-	-	-	1600	29	128

[1] Multiples of 124.98, 166.67, 208.3 µs should be avoided because they are multiples of Bins #6, #8, and #10. Older systems use 479-1650µs

15b. Modified document paragraph, figure, or table with the change incorporated.

TABLE D1: MILES CODE PARAMETERS FOR DIRECT FIRE ROUTINE

MILES Code No.	No. of Heavy Weapon Hit Words (K) /Round	Delay (D1) µs[1]	Light Weapon Hit Code No.	No. of Light Weapon Hit Words (M) /Round	Delay (D2) µs [1]	Heavy Weapon Near Miss Code No..	No. of Heavy Weapon Near Miss Words /Round	Delay (D3) µs [1]	Light Weapon Near Miss Code No.	No. of Light Weapon Near Miss Word /Round
00	16	0	N/A	0	0	N/A	0	0	N/A	0
01	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
04	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
05	4	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
06	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
10	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
11	4	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
12	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
13	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
14	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
15	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
16	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
17	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
18	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
19	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
20	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
21	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
22	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
23	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
24	0	0	24	4	0	N/A	0	1600+/-20	29	128
25	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
26	8	1600+/-20	27	128	1600+/-20	28	128	0	N/A	0
27	0	0	27	4	0	N/A	0	1600+/-20	29	128

[1] Multiples of 124.98 µs should be avoided because it is a multiple of Bin #6.
Older systems use 479-510µs.