

25 October 2000
00-KGC-0401/W10822

Ms. Kathy Lannan, AMSTA-LC-CSC-B
TACOM-Rock Island
Building 110
Rock Island, IL 61299-7630

Dear Ms. Lannan:

Subject: Feed Select Solenoid Redesign

Reference: E-mail dated 27 September 2000 Requesting P&A

McDonnell Douglas Helicopter Company, an indirect subsidiary of The Boeing Company (Boeing-Mesa) is pleased to provide this Price and Availability (P&A) for the Redesign of the Feed Select Solenoid, part number 12524404. Total value of this P&A is \$31,500. The following groundrules and assumptions were used in preparing this P&A.

1. This P&A is valid for ninety (90) days.
2. It is assumed that this effort will be authorized under the current STS contract
3. A recommended Statement of Work and a proposed Program Schedule are provided as enclosures.

If we can be of further assistance, please contact the undersigned at 602/891-1841, or FAX 602/891-7526.

Sincerely,



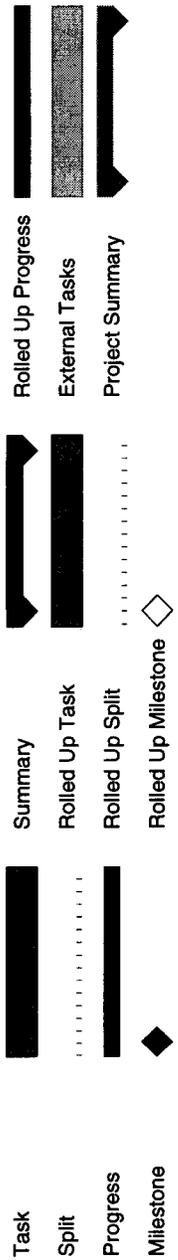
Karen Chmiel
Contracts Administrator
Ordnance Contracts
The Boeing Company-Mesa
E020 - M543/D216

Enclosures: Statement of Work, Program Schedule



M242 Feed Select Solenoid
(P/N 12524174)
RFP No. W10822

ID	Task Name	WBS	2001				2002				2003				2004		
			Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
1	Estimated Contract Award	1	◆														
2	PHASE I--Create white paper	3.3															
3	Boeing Ordnance investigation/evaluation	3.3.1															
4	Rocker Industries investigation/evaluation	3.3.2															
5	PDR (Boeing/Rocker)	3.3.3															
6	Boeing Ordnance creates white paper	3.3.4															
7	White paper delivered to customer	3.3.5															
8	PHASE II--Produce and test one Solenoid Body	3.4															
9	Gov't approval and turn on	3.1															
10	Rocker Industries/Boeing finalize internal dwgs.	3.4.1															
11	CDR (Boeing/Rocker)	3.4.2															
12	Produce one Solenoid Body unit	3.4.3															
13	Rocker Industries conduct test	3.4.4															
14	Boeing Ordnance conduct test	3.4.5															
15	PHASE III--DD Form 250 for completion of contract	3.4.6															
16	Government test	3.4.7															
17	Boeing Ordnance/Rocker available for status to Gov't	3.5															
18	PHASE IV--DD Form 250 for completion of contract	3.7															



Project: FSS_redesign
Date: Wed 10/25/00

Task: [Bar]

Split: [Dotted Bar]

Progress: [Bar]

Milestone: [Diamond]

Summary: [Bar]

Rolled Up Task: [Bar]

Rolled Up Split: [Dotted Bar]

Rolled Up Milestone: [Diamond]

Rolled Up Progress: [Bar]

External Tasks: [Bar]

Project Summary: [Bar]

**Statement of Work
M242 Feed Select Solenoid
(P/N 12524174)**

- 1.0 SCOPE: This SOW shall address the elements required to redesign the M242 Feed Select Solenoid body to reduce or eliminate failures of the shaft at the first detent point and at the knob area. The tasks shall include efforts from Boeing, Ordnance in conjunction with the solenoid supplier, Rocker Industries, to evaluate the current shaft design and potential design improvements, fabrication of prototype hardware for supplier and/or government tests and documentation as required in the RFP. Note that subject changes shall be accomplished in such a manner as to not require a change to drawing 12524174 or specification 12524007. (Reference RFP No. W10822 with attached customer SOW).

- 2.0 Applicable documents:
 - 12524404 Solenoid, Feed Select
 - 12524174 Body Assy, Feed Select Solenoid
 - 12524007 Solenoids, Electrical, Automatic Gun Control,
Critical Item Product Function Specification

- 3.0 Requirements.

PHASE I

- 3.1 Redesign the M242 Feed Select Solenoid body to reduce or eliminate the shaft breakage problem. The redesign shall still meet all of the requirements of drawing 12524174 and specification 12524007

- 3.2 No change to drawing 12524174 or specification 12524007 should be required as a result of the redesign

- 3.3 Create a white paper outlining the solution to solving the shaft breakage problem.
 - 3.3.1 Boeing Ordnance Engineering investigation and evaluation of hardware current design and potential redesign concepts to include consultation with Rocker Industries. This effort to include creation of sketches, drawings, confirmation test criteria etc. as necessary to define the technical approach/solution.

 - 3.3.2 Rocker Industries investigation and evaluation of hardware current design and potential redesign concepts. This effort to include creation of sketches, drawings, confirmation test criteria etc. as necessary to define the technical approach/solution.

 - 3.3.3 PDR (Preliminary Design Review) – Boeing and Rocker Industries

05 October, 00

**Statement of Work
M242 Feed Select Solenoid
(P/N 12524174)**

3.3.4 Boeing Ordnance Engineering to create a white paper describing the design approach. The white paper shall contain sufficient definition, including sketches, drawings analysis etc., as necessary to substantiate the selected approach. The white paper shall also include estimated cost impact to the Feed Select Solenoid.

3.3.5 Deliver white paper to customer.

PHASE II (Upon receipt of Government approval and go-ahead)

3.4 Produce and test one Solenoid Body unit, which will be made available for evaluation/testing. The Government reserves the right to witness any testing of this unit. Following successful testing by the Rocker Industries/Boeing Ordnance, the Government will conduct a function test of the unit at a Government facility by using it in conjunction with a M242 gun.

3.4.1 Rocker Industries/Boeing finalize internal drawing package to define redesign prior to building one test unit.

3.4.2 CDR (Critical Design Review) –Effort to include travel to Rocker Industries

3.4.3 Produce one Solenoid Body unit to redesign configuration.

3.4.4 Rocker Industries conduct tests on redesigned unit.

3.4.5 Boeing Ordnance conduct tests on redesigned unit.

3.4.6 Deliver to Government for test.

PHASE III (Receipt of Solenoid Body unit by Government)

3.4.7 Boeing Ordnance support/witness Government test.

3.5 Although no meetings or formal data deliverables are required, Boeing Ordnance and Rocker Industries shall accommodate requests for status or technical information from the Government.

3.6 Target schedule as attached.

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**Statement of Work
M242 Feed Select Solenoid
(P/N 12524174)**

PHASE IV (Government acceptance of the redesign)

- 3.7 Acceptance of the redesign will be by signing of a DD Form 250 for the completion of the contracted effort. By signing the final DD Form 250, authorization is given by the Government to incorporate the new design into new production units.