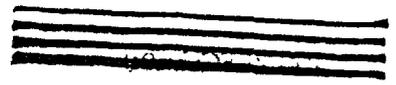


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L. M. Redman
NOV 06, 1980

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LANE DISSEM. GROUP 3, CUP
SE 6/18/98

1 June 1981

TO: Personnel Concerned
FROM: Comdr. N. E. Bradbury
SUBJECT: Coax Connection for 1773 Detonators

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LWR
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1. There seems to be a considerable amount of misunderstanding concerning responsibility for including the method by which the coax is connected to the 1773 detonators. In order to avoid further meetings, I propose to make a suggestion as to the procedure and responsibilities for each step, and then await the repercussions.

2. The procedure for staking on the coax lead to the 1773 detonator will be changed in the following way: The flexible coax lead itself will be provided with an attached stakon connector, a suitable sleeve will be permanently affixed to the braid and, in back of the sleeve, will be an appropriate screwed on fitting. The field assembly of this affair will then consist in pushing back the braid of the flexible coax, inserting the insulating sleeve underneath it, making the stakon connection to the coax lead to the 1773, pulling up the braid, sleeve and screw fixture, and tightening up the screw. The only complicated portion of this procedure would then be actually making the stakon. No manipulation of the braid in the field would be necessary.

3. It is then considered that coax cable would be ordered in two ways--the first way would be for field use which would, therefore, have an X unit connector at one end, be of the proper FM length, and have the device described above at the detonator end. For Greisen's testing purposes, coax leads would be ordered having the same device at the detonator end as above but having a different type of connector at the far end of the flexible coax which would be of a length appropriate to Greisen's experiments.

4. It is suggested that the responsibility for these procedures be as follows: Henderson to design and institute procurement of devices to terminate the coax at the detonator end. Such device would then be available to Raytheon, Y, and other manufacturers. Fussell would institute procurement of appropriate cables from Raytheon or elsewhere for his field use; Greisen might procure from Raytheon or elsewhere if desirable.

5. The ultimate refinement in a connecting device will be attained when the stakon type connector is replaced by a pin type connector directly on the detonator body. Accordingly it is suggested that Henderson undertake the design of a 1773 detonator employing a pin type connection. The design should be the responsibility of Henderson's but should incorporate in the body of the 1773 and in the coax lead any improvements which Greisen might wish to suggest. The type of connector must be acceptable electrically to Fussell, and mechanically to Warner.

6. The responsibility of making either the stakon connection at the Detonator or the ultimate pin type connector jacket, if ever attained, will be the responsibility of Mr. Fussell's personnel.

7. This memorandum is the result of informal discussion with various

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people involved in this problem and constitutes the procedure which it is believed should be recommended to the Weapons Committee for action by the various people involved.

N. E. Bradbury

MLB:he

- To: Brode
- Fussell
- Warner
- Birch
- Morrison
- Ramsey
- Parsons
- Greisen
- Henderson
- Ruzyan
- Cherry

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