MEMORANDUM

TO: 212/George J. Magnus, Planning Control Office, Fabrication Division

FROM: 373/AST/MES/MDB/RFED

SUBJECT: Damage Assessment Procedure for 8' TPT Blade Mounting Boxes

Preliminary visual examination of the blade mounting boxes indicates that at least seventeen (17) of the thirty-two (32) blade boxes are structurally unsound. To determine the full extent of the rework effort the following NDE Checking Procedure is recommended.

1. Magnetic particle check all mounting holes of all (32) Boxes. Also check weld attachments and fillet transition areas of center attachment plate. Spot check all welds.

2. Run hardness check on all three main mounting plates of five blade boxes at random.

3. Verify material of at least one box.

4. Remove one cracked center plate for destructive testing.

5. Dimensionally check blade mounting holes for alignment and diameter?

6. Check all blade mounting pins via eddy current for flaws.

7. Provide photographic record of most severely damaged blade box.
8. Dye check hub plate in area of box mounting holes. Check at least 4 different locations.

9. Repair procedures pending results of above tests.

Benjamin S. Owens
3771

cc:
373/Owens
114/Stahl
166A/Foretich
166A/DeLauder
359/Bielot
219/Miller
359/Perry

373/BSOwens:dcf 6/5/75 (3771)

373/JCM 6/5/75

372/JEK

370/RLG
FAN BLADE MOUNTING BOX

0 MAGNAFLUX TESTS INDICATE 25 OF THE
   32 BLADE BOXES ARE STRUCTURALLY UNSOUND.

0 CHECK ON MATERIALS INDICATES A 120
   DAY DELIVERY SCHEDULE FOR 4130 STEEL.

0 RECOMMEND IMMEDIATE NEGOTIATIONS FOR
   NEW BLADE BOXES.

0 WHAT OPTIONS DO WE HAVE IN MEANTIME
   - NEGOTIATE WITH Ames 11-FOOT T.T.
   - NEGOTIATE WITH CALSPAN 8-FOOT T.T.
   - ATTEMPT WELDING OF CRACKS AND
     OPERATE AT REDUCED RPM.