

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035



Reply to Attn. of: JEA:T29A

NASA/Ames Research Center
Attention: Joseph L. Hurlbut, Manager
Aeroacoustic Modification Project
M/S T29A
Moffett Field, CA 94035-1000

January 9, 1998

Industrial Commutator Company, Limited
Attention: David R. Simpson, President
30 Alliance Blvd.
Barrie, ON
Canada L4M5K3

Mr. Simpson:

I am writing to acknowledge and recognize the outstanding contribution Industrial Commutator Company, Limited has made toward the successful completion of NASA's 40x80 Aeroacoustic Modification Project through the work performed in rebuilding the commutator on what we call the D1B rotor. The commutator rework was an unforeseen requirement which surfaced during refurbishment of our Induction Frequency Changer (IFC) system by National Electric Coil of Ohio.

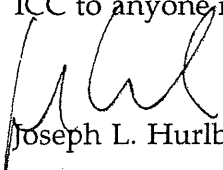
This last minute need to have the commutator rebuilt posed a real challenge to the timely completion of the IFC work and had the potential to "bust" our schedule. Fortunately, ICC was able to address these critical repair issues exclusively within their facility repair system, and thus maintaining a schedule that avoided impacting NASA's overall completion date.

In addition to ICC's scheduling and planning efforts, which essentially "saved" the IFC refurbishment schedule, NASA was impressed by several other features of the ICC facility and by the manner in which the work was carried out:

- 1) The highly skilled and productive workforce that contributed greatly to the successful completion of this effort.
- 2) The plant production environment which was conducive to the timely implementation of quality workmanship. Well-maintained or, in many cases, nearly new fabrication equipment and commutator repair tooling were available in an exceptionally clean and well-lighted work area that assured each task could be efficiently accomplished.

- 3) An ISO 9002 certified QA/QC program that emphasized efficiency as well as thoroughness.
- 4) The businesslike professionalism of a highly competent managerial and production staff who "kept us in the loop" as the various activities involved in completing our job were planned, implemented, completed and signed off. Although our commutator was not of the typical size for ICC, potential problems associated with this issue were well thought-out and discussed in advance. This level of communication kept NASA apprised of problems and their resolution as they surfaced.

All in all, then, I am exceptionally pleased to report that NASA's experience with ICC this past year has been a positive one, and I would not hesitate to recommend ICC to anyone needing this type of service.



Joseph L. Hurlbut

cc. Doug Anderson, National Electric Coil