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MANNED SPACECRAFT CENTER  
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HOUSTON, TEXAS 77058

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IN REPLY REFER TO: EG25-65-725

OCT 11 1965

THROUGH: NASA Resident Apollo Spacecraft Program Office  
Massachusetts Institute of Technology  
Instrumentation Laboratory  
Cambridge, Massachusetts 02142

RECEIVED

OCT 14 1965

TO : Massachusetts Institute of Technology  
Instrumentation Laboratory  
Cambridge, Massachusetts 02142  
Attention: M. B. Trageser, Director, Apollo G&N Program

APOLLO DIRECTOR

FROM : Project Office, Guidance and Navigation  
Apollo Spacecraft Program Office

SUBJECT: Contract NAS 9-4065, shielding of LEM Guidance Computer (LGC) interface wiring

MIT/IL has recommended that certain LEM Guidance Computer (LGC) interface wiring, which is not presently shielded, be shielded to prevent EMI problems associated with electrostatic discharge. MSC does not feel that the weight penalty can be justified on this basis.

MIT/IL is requested to provide a report stating the shielding requirements for each of the forty-two signal wires involved. This report shall document (a) the shielding requirements for these wires to meet normal operating requirements and specifications, (b) the consequences of no shielding, and (c) alternate recommendations for electrostatic discharge protection. The technical analysis supporting each requirement for shielding shall also be provided.

This report is required at MSC by October 20, 1965 and copies shall be provided directly to Messrs. R. A. Gardiner (EG4), W. Rhine (EG44), C. Brady (EG25), R. Lewis (EG43), and A. Cohen (PS).

Date October 14, 1965

Document Identification EG25-65-725

M. Subject: Shielding of LEM Guidance Computer (LGC) Interface Wiring

Date Received October 14th

Action Responsibility Hoag

Requested Completion Date Oct. 20th

Info. Copies Sent to Hall, Wilk, Lawrence

*Actions - Hoag*  
*Hall*  
*Wilk*  
*Lawrence*