NATI	ONAL AERONAUTICS AND SPACE ADMINISTR ROUTING SLIP	ATION
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DA DA	Mr. Johnston	Note and Forward
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JA DA Dr. Berry	Dr. Berry	Per Requist
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Based on an analysis of the Apollo 14 data I am confident that an upper limit to the Apollo 15 radiation dose is 1.6 rads to the skin and 0.8 rads to the 5 cm depth. This presumes no significant changes in the radiation environment and there are no reasons to expect a change.

I had reason to expect that the knowledgealle individual in S&AD would perform the computer runs for the analysis when the operational trajectory was published, but it is now apparent that the runs will not be made without specific request. If it is considered imperative to have a computer analysis on the planned trajectory, a memorandum of request is attached.

NAME	To Part Till Control	TEL. NO.	or code) & EXT.
J. V. Bailey			4251
CODE (or other designation) DC71		DATE	6-4-71

CC5/15



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MANNED SPACECRAFT CENTER HOUSTON TEXAS - 77058

ATTN OF DC71/6/M03/71 (RH)

MEMORANDUM

TO:

TA/Director of Science and Applications

FROM:

DA/Director of Medical Research and Operations

SUBJECT:

Pre-mission Projection of Flight Crew Radiation Exposure

on the Apollo 15 Mission

I recognize that radiation exposure to the flight crews on Apollo missions have not been medically significant and that there are no apparent reasons to expect this to change; however, I feel that it would be prudent to perform an analysis of the expected radiation exposure for the Apollo 15 mission. This would assure all interested persons, both within and without NASA, that we are maintaining our vigilance in this area and are doing all we can to protect the health and safety of our astronauts. A pre-mission analysis will also provide a basis for evaluating the performance of the operational radiation instrumentation during the mission and give confidence to resulting measurements should a contingency arise.

It is understood that your organization does retain the capability to perform such an analysis and is the only group that has this capability. Accordingly, it is requested that an analysis of the expected Apollo 15 radiation exposure be performed and print outs of the expected radiation dose profiles be provided for use at the Space Environment Console during the Apollo 15 mission.

Charles A. Berry, M.D.

cc: DD/W. R. Hawkins, M.D. FA3/R. G. Rose FC9/B. T. Hervey

DC71/JVBailey:lmr:6/4/71:4251