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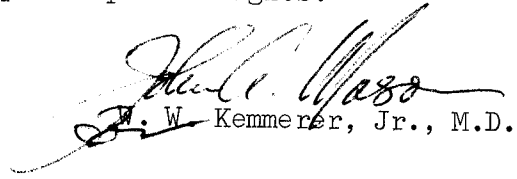
MEMORANDUM TO: DA/Director, Medical Research and Operations
FROM : DC/Chief, Preventive Medicine Division
SUBJECT : Update of fecal glove

Under contract number NAS 9-10313, Whirlpool Corporation is developing an updated Apollo feces collection device which is similar to the current Apollo used "Gemini Fecal Glove." The intent of this effort is to incorporate those changes suggested by the attendees of the Waste Management Workshop which was conducted at Battelle Memorial Institute. These changes include (1) designing bag such that correct positioning is assured, (2) improving finger cot design to eliminate scratching and to facilitate manipulation, (3) altering bag flange to improve sealing of bag to perianal area, and (4) providing an attach point to provide bag tiedown during clean-up time. Optimistically the bag design developed under this contract will provide improved feces collection in the remaining Apollo flights and serve as a contingency system in future programs.

Under the requirements of the contract, the Contractor delivered a mockup of the new design to the contract monitor for evaluation. It was felt that an astronaut with flight experience would be most able to evaluate the design and hence the mockup was given to Mr. Walt Cunningham. Following his evaluation, Mr. Cunningham wrote the attached memorandum, dated March 5, 1970. His comments were forwarded to the Contractor and they will be incorporated into the design of the twelve prototype units to be delivered at the termination of the contract in approximately two weeks.

It is the intention to submit several of these prototypes to individual astronauts for their evaluation. In addition, Dr. Paul Rambaut and Mr. Richard Sauer, both of whom will be qualified for 0-g flight, intend to personally evaluate the bag design by using it in the KC-135.

If these tests and the astronaut's evaluations are positive, documentation will be prepared to present the design to the CCP/CCB for their review and approval for use on subsequent Apollo flights.


R. W. Kemmerer, Jr., M.D.

Enclosure

cc:

CA/T. V. McElmurry
CB/R. W. Cunningham
CB/D. L. Holmquest
CB/J. P. Kerwin
CB/F. S. Musgrave
CB/T. P. Stafford
CB/R. H. Truly

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