

DECLASS REVIEW by NIMA/DOD



19 FEBRUARY 1960



SUBJECT: CONTRACT No. [REDACTED]
PROGRESS REPORT No. 12

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IN COMPLIANCE WITH THE REQUIREMENTS OF SCHEDULE A, ARTICLE 2, ITEM 5 OF SUBJECT CONTRACT, WE HEREWITH SUBMIT MONTHLY PROGRESS REPORT No. 12. THIS REPORT COVERS THE PERIOD FROM 9 JANUARY 1960 TO 9 FEBRUARY 1960 ON THE DESIGN AND FABRICATION OF THREE (3) NADIR DETERMINATION DEVICES (GIANT).

THE COMPLETE SYSTEM OF UNIT No. 1 HAS BEEN ASSEMBLED AND A GENERAL PRELIMINARY CHECK MADE. WHILE NO QUALITATIVE TESTS HAVE YET BEEN PERFORMED, IT WAS OBSERVED THAT THE MACHINE OPERATED AND FUNCTIONED PERFECTLY AND MET THE SPECIFICATION IN EVERY RESPECT. DURING THIS PERFORMANCE, IT WAS NOTED THAT THE GIANT IS VERY SENSITIVE TO RANDOM VIBRATIONS, SUCH AS LEANING ON OR JARRING THE CABINET. IF THE FULL ACCURACY THAT IS BUILT INTO THE SYSTEM IS TO BE REALIZED, LOCAL VIBRATIONS MUST BE HELD TO A MINIMUM. HOWEVER, THE SYSTEM WILL UNDOUBTEDLY YIELD A REPEATABLE ACCURACY OF PLUS OR MINUS FOUR MICRONS UNDER NORMAL CONDITIONS. REPEATABLE STATIC MEASUREMENTS OF PLUS OR MINUS 2 MICRONS HAVE BEEN REALIZED WHEN TESTS WERE MADE LATE AT NIGHT SO THAT THE POWER WAS MORE LIKELY TO BE CONSTANT AND THE VIBRATIONS AT A MINIMUM.

THE ROUGH DRAFT OF THE OPERATION AND MAINTENANCE MANUAL HAS BEEN COMPILED AND WILL BE EDITED AND PUT IN FINAL FORM FOR DELIVERY WITH THE UNIT DURING THE NEXT REPORTING PERIOD. INCLUDED IN THE MANUAL ARE FULL SCHEMATICS, COMPLETE OPERATING INSTRUCTIONS, AND DESCRIPTIONS OF EACH CONTROL, AS WELL AS A TROUBLE SHOOTING CHART FOR THE OPERATOR'S GUIDE. CONTROLS ARE ILLUSTRATED AND EXPLAINED SO THAT NO DOUBT SHOULD REMAIN IN THE OPERATOR'S MIND AS TO WHAT SHOULD HAPPEN AND WHEN IT SHOULD HAPPEN.

IT IS ANTICIPATED THAT ALL QUALITATIVE TESTS WILL BE COMPLETE DURING THE WEEK OF 15 FEBRUARY, AND THE UNIT WILL BE AVAILABLE FOR SHIPMENT ANY TIME AFTER 20 FEBRUARY. WE HAVE RECEIVED A LETTER FROM YOUR [REDACTED] ADVISING THAT HE WILL ARRIVE HERE ON 29 FEBRUARY FOR THE PURPOSE OF CONDUCTING

STATINTL

STATINTL



19 FEBRUARY 1960
PAGE 2

FINAL ACCEPTANCE TESTS. AT THAT TIME, FIRM ARRANGEMENTS WILL BE MADE FOR SHIPPING. OUR FIELD SERVICE DEPARTMENT WILL MAKE FINAL ADJUSTMENTS AND CHECK AT YOUR LOCATION TO ASSURE THAT THE UNIT IS FUNCTIONING SATISFACTORILY.

WE HAVE NOT AS YET RECEIVED THE ADDITIONAL FUNDS REQUIRED TO COMPLETE UNITS TWO AND THREE. ON 1 FEBRUARY 1960, ALL WORK ON THESE UNITS WAS TERMINATED AND THE PERSONNEL CONCERNED WERE RESCHEDULED ONTO OTHER PROJECTS. AS SOON AS THE ADDITIONAL REQUESTED FUNDS HAVE BEEN MADE AVAILABLE, WE WILL RE-PROGRAM COMPLETION OF THESE TWO UNITS AND WILL PROVIDE YOU WITH A REVISED ESTIMATE OF COSTS TO COMPLETE AND SHIPPING DATES.

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SINCERELY YOURS,



VICE-PRESIDENT
ENGINEERING

JCP:JP