SECRET

ROUTING

1	4/06	4	DB
2	4	5	FW
3	Comm.	6	RSTaylor RE

DATE 2325Z 02 MAR 61

TO : DIRECTOR

25X1A FROM : [redacted]

ACTION: DPD (1-2-3-4-5-6-7-8-9-10)

INFO : S/C (11)

RMH

TOR: 0030Z 03 MAR 61

Hayd

ROUTINE

IN 48182

25X1A TO [redacted] INFO CITE [redacted] 1528

OXCART

25X1A

25X1A [redacted] TO JOHN PARANGOSKY

1. THE FOLLOWING JUSTIFICATION FOR PURCHASE OF A MOTOR-GENERATOR SET IS FORWARDED FOR APPROVAL TO PROCURE LOCALLY.

A. THE BEST MAINTAINABLE STABLE POWER INTO THE TEST BUILDING AT PRESENT VARIES BY PLUS OR MINUS 2 VOLTS. FREQUENTLY DURING GENERATOR CHANGES OR TRANSIENT LOADS THIS FLUCTUATION WILL VARY BY AS MUCH AS MINUS 10 TO 12 VOLTS. THESE FIGURES ARE SUBSTANTIATED BY A CONTINUOUS MONITOR CHART RECORDING OF INPUT POWER TO THE TEST BLDG. UNFORTUNATELY THROUGH PAST EXPERIENCE ON THE TEST SITE COMMERICAL POWER POSSESSES A STABILITY NO BETTER THAN THE FIGURES QUOTED ABOVE, NECCESSITATING THE USE OF MOTOR GENERATORS ANYPLACE ON THE TEST SITE WERE STABLE POWER IS REQUIRED.

B. CALIBRATION AND REPODUCABILITY OF TEST DATA IS UNFORTUNATELY SENSITIVE TO LINE POWER FLUCTUATIONS. TO ISOLATE AND REGULATE EACH INDIVIDUAL PORTION OF THE SYSTEM WHICH IS LINE VOLTAGE SENSITIVE IS ECONOMICALLY UNSOUD. THE ONLY FEASABLE APPROACH APPEARS TO BE

SECRET

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NO CHANGE IN CLASS
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S C
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DATE 2/6/81 REVIEWER: 018373

THE STABILIZATION OF INPUT POWER TO THE TOTAL TEST SYSTEM. THE UNIT SPECIFIED WILL ACCOMPLISH THIS END. THE SPECIFIED POWER HANDLING CAPABILITIES HAVE BEEN RATED TO ENCOMPASS PROJECTED ADDITIONAL TEST USAGE.

C. MALFUNCTIONS AND SYSTEM DRIFT DUE TO INPUT POWER FLUCDUATIONS FAR OFFSET THE COST OF PURCHASE AND INSTALLATION OF THE MOTOR GENERATOR SET. HENCE TO INCREASE THE RELIABILITY OF RESULTS AND MINIMIZE DOWN TIME OF SYSTEMS TEST, THE STABILIZATION OF INPUT POWER IS MANDATORY.

2. COST OF SET IS APPROXIMATELY $3,800.00 AND WILL BE PROCURED BY EGG.

END OF MESSAGE