

NNNN
NFAOOS
XK INGL 2382
1 DE RJWZNF 27
X 041738Z
FM OSD WASH DC
TO COM AFBMD LOS ANGELES
INFO COM ARDC ANDREW AFB
COM AFCRC LG HANSCOM FLD MASS
BT
/C 2227
RECEIVED
WDD ARD
ACTION WOZ
-5 MAR 195914 56
■■■■
INFO: WDGE WDE
wor
WDT
WDEVV
MECRE■■//DEF 955766 FROM OSDARPA SCD ROY W JOHNSON
THERE HAVE BEEN MANY QUERIES FROM AGENCIES SUCH AS UCRL /LIVERMARE/
NATL SCIENCE FOUNDATION AND NASA AS TO THE FEASIBILITY OF
INCORPORATING FILM PACKS OR EMULSION BLOCKS PROVIDED BY THESE AGENCIES
IN THE DISCOVERER SERIES SHOTS. THE PURPOSE IS TO OBTAIN RADIATION
DATA AND NATURALLY, THE INTEREST LIES IN THE RECOVERY ASPECTS OF THE
DISCOVERER.
ENGINEERING AND WEIGHT DIFFICULTIES INHERENT IN INCORPORATING
ADDITIONAL ITEMS ARE RECOGNIZED. IT MAY BE, HOWEVER, THAT DATA TO BE
DERIVED FROM PLANNED PAYLOADS WILL BE ADEQUATE TO SATISFY THE AGENCIES
PAGE TWO RJWZNF 2F
REQUIREMENTS OR THAT SUBSTITUTIONS COULD BE MADE ON THE BASIS OF
REDUCED WEIGHT AND/OR BETTER QUALITY OR AMOUNT OF DATA TO BE OBTAINED.
AS A BASIS FOR PROVIDING ANSWERS TO THESE QUERIES, IT IS REQUESTED
THAT THE FOLLOWING INFORMATION BE FURNISHED TO ARPA AS SOON AS
POSSIBLE CLN
BT.
A. SIZE AND WEIGHT OF INDIVIDUAL PACKS OR BLOCKS.
B.
C.
D.
NUMBERS TO BE INCLUDED IN INDIVIDUAL SHOTS.
DESIGNATED SHOTS.
SPECIFICATIONS OF PACKS OR BLOCKS.
E. DATA TO BE OBTAINED
THIS IS CAT "AC" MSG
05/01092 MAR RJWZNF
DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS..
DOD DIR 5200.10
CONFIDENTIAL
LUN
40-1-59-709
...■■■"

ALIVED
WDEN 192052
WOZW
06 34
AND
OR WORD FEE, E, GUL
*C - PARAPHRASING. NO RE
TORY & ENCRYPTON WHYSICALLY
FENCES BY DATETIME
GROUP PRIOK.
NEW. INTERNAL REP.
MY MAJOR TO CATE
DUNCLASSIFIED REFERENCE IN DARTGROUP IS QUOTED,
* DECLAIMHCATION
.
NJA003
PP INGL2382
DE RJWZNF BF
P 272230Z
TH OSD WASH DC
TO COMBR AFBMD LOS ANGELES
BT
UNCONFIDENTIAL//DIT 953609 FROM ARPA SIGNED CLARK
REFERENCE YOUR WBXW-2-12-E OF 23 FEB 59, IN GENERAL, REPLACEMENTS AND
MODIFICATIONS OF DISCOVERER LAUNCH VEHICLES UNCLASSIFIED. GENERAL
REASONS FOR REPLACEMENTS OR MODIFICATIONS ALSO UNCLASSIFIED.
HOWEVER, USUAL DISCRETION AND GOOD JUDGMENT REQUIRED AS TO TIMING
AND FORM OF RELEASE, IF ANY, OF SUCH INFORMATION.
TO AMPLIFY,
SEE PREPARED STATEMENT BY COL DEAN HESS AT PRESS LOGISTICAL
DRIEFING, LOS ANGELES PRESS CLUB, 19 FEB
IT
THIS IS AN AC MSC
26/04022 FEB AJUZN
NNNN
DOWNGRADED AT 3 YEAR INTERVAL
DECLASSIFIED AFTER 12 YEAR.
DOD DIR
5200.10

JOINT MESSAGEFORM
SECURITY CLASS
CO
SPACE BELOW RESERYED FOR COMMUNICATION CENTER
FEB 23 22 44*59
AD
DEF 955243
OC-1008
CLASSIFICATION
OF REFERENCE
Confi
SPECIAL INSTRUCTIONS
DENCE
TYPE MSG (Check)
ACCOUNTING - | ORIG. OR REFERS TO
SYMBOL
ACTION
BOOK
MULTI SINGLE
INFO
AF
F
FROM:
TO:
TER, ARPA,
INFO: cors URAF, WASH, BG
DOWNGRADED AT 3 YEAR INTERVALS,
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10
see
ning
DEF
955609
199
:
i
955243,
FICO MEZ 2-12-E FOR AFCON NG URAY. REFERENCE DESSAKIE
• INTERPOSES NO OBJECTIONS TO THE PROCEDURES CUTLINED
REFERENC TWI. IT IS SUGGESTED THAT ADDIFICHAT. INSUREISTICHES AR
TO CLARIFY THAT PORTION OF YOUR MESRAGE WHICH STATES IN
NO HEPT■ NO ATTORPT WILL BE MAHR TO CONTRAL
KLASSIFIED
KIEFINGS WILL
TTERAT.
EPLACEMENTS ER MODIFICATIOUS AND FAR-LAHN
PROVIEH ACCEPTAKEN, OFF TER HIGOED INFORMATION CN SUCH GHARIES WHILE
ZELAIDE THI KUMRICAL, DESKOKAZZONE OF THE LAUNCH IN ACCORDANCE WITK
HE CRITERIA. SINTED ABOVE. UNIXIR. THIS PORES A FROHLEN AS TO WHAT
IS MEANT BY UNCLASSIFIED REPLACERE -MORIFICATIONS. FOR INSTANCE
±B IT ARPA'S INTERPRETATION THAT THE REFLACIO
OF THOR 160-VEHICLE
1019 BY THOR 163-VEHICLE 1022 IS CLASSIFIED OR UNCLASSIFIED? IF SUCH
IR OWNE
SELASSIFIED, WHAT IS THE CLASSIFICATION OF
DATE
TIME
20
CIDENT WHICH
IN THE REPLACEMENT.
MONTH
YEAR
FEB
1959
SYMBOL
WDZH
TYPED NAME AND TITLE (Signature, if required)
HARKY L. EVANS, Calenal, USAF/ce
PHONE 1822
SECURITY CLAST
FORM
DD, MAY 55
173
PAGK I NR. OF 1
NR.
PAGES
SIGNATURE
TYPED (or stamped) NAME AND TITLE
HANKY L. EVANS
Colonal, USAT
Director for US 117L
REPLACES DD FORM 173, 1 OCT 49. WHICH WILL BE USED UNTIL EXHAUSTED
1

!
RECEIVED
7DD A AWB ?!
NATIO
"C. PARAPHRASING NOT PEQUICO ESCERT PRIOR TO CATE: 20 FEB 1959 09 95
ME: 3
GROUP DE
TO UNCLASENCE OF
WDGE
wD6
WDEV
16-1755

■■■
#A004
PINGL 2352
K RJWZNF A
'1922447

'N OFFICE OF SECRETARY OF DEFENSE WASHINGTON DC
COMMANDER AFBMD LOS ANGELES CALIFORNIA
MIN/CONKANDER PACMISRAN PT MUGU

■■■N/AFGCH WASHINGTON DC
INFO ZEN/SECRETARY OF NAVY WASHINGTON DC
EN/SECRETARY OF AIR FORCE WASHINGTON DC
[EN/SECRETARY OF DEFENSE WASHINGTON DC
EN/BAFIS WASHINGTON DC

NFIDENTIALCITE DEF 955243. FROM ARPA SIGNED JOHNSON.

IN ORDER TO TAKE ALL REASONABLE PRECUATIONS TO PREVENT ADVERSE PUB-
ICITY ON. THE DISCOVERER PROJECT, IT IS NECESSARY TO INSURE THAT OFFICIAL
XPORTING PROCEDURES, INSOFAR AS PRACTICABLE, ACCOMMODATE THE PUBLIC
INFORMATION ASPECTS OF THE PROJECT.

IT THE PRESENT TIME, PROJECT CHANNELS ARE REFERRING TO THE PLANNED FIB-
MARY 25 LAUNCH AS DISCOVERER II WHILE PUBLIC INFORMATION CHANNELS PLAN
10 IDENTIFY IT AS DISCOVERER I. AS THE DISCOVERER SERIES PROGRESSES, THE
IMMERICAL DISCREPANCY MAY VIDEN AND LEAD TO OTHERWISE UNPUBLICIZED DIF-
ICULTIES IN THE PROGRAM. SUCH PUBLICITY IS NOT IN THE NATIONAL INTEREST.

:
MGE TUO RJWZNF GF
YEAR INTERVALS,
DOWNGRADED AT
DECLASSIFIED AFTER 12 YEARS.
DOD DIR
5200.10

IT IS THEREFORE REQUESTED THAT BOTH OFFICIAL AND PUBLIC INFORMATION
ONDERICAL SEQUENCE DESIGNATIONS BE IDENTICAL. THE FOLLOWING IS SUG-
RESTED AS A MEANS FOR ACHIEVING THIS OBJECTIVE CLN
1. PUBLIC INFORMATION NUMERICAL DESIGNATIONS WILL BE BASED UPON THE
LEQUENCE OF ACTUAL FIRINGS REPORTER BY THE PRESS. THESE FIRINGS WILL,
MSED UPON PAST PRESS REPORTING EXPERIENCE, NORMALLY FALL WITHIN THE
_INITS FOR "OPEN" LAUNCHINGS, OF FAILURE AT LIFT-OFF AND COMPLETE SUC-
ZEBS. THEREFORE, AN INTERRUPTION ON COUNTDOWN AND POSTPONEMENT OF A
LAUNCH, EVEN FOR REPLACEMENT OR MODIFICATION OF VEHICLE COMPONENTS, WILL
OOT RPT NOT CHANGE THE PUBLIC INFORMATION NUMERICAL DESIGNATION. IN
EMERAL, NO RPT NO ATTEMPT WILL BE MADE TO CONCEAL UNCLASSIFIED RE-
PLACEMENTS OR MODIFICATIONS AND PRE-LAUNCH PRESS BRIEFINGS WILL PRO-
SIDE ACCEPTABLE OFF-THE-RECORD INFORMATION ON SUCH CHANGES, WHILE RE-
FAINING THE NUMERICAL DESIGNATION OF THE LAUNCH IN ACCORDANCE WITH THE
RITERIA STATED ABOVE. THIS WILL APPLY TO THE 25 FEBRUARY LAUNCH IN
PARTICULAR.

i

ERAIRAN IRA AMANILY OF VERACLES IN OFFICIAL REPORTS WHILE
ACCOMMODATING THE PUBLIC INFORMATION PROBLIN, A CURRENT MASTER LIST
OF PROGRAN FLIGHTS TOGETY WITH ASSOCIATED BOOSTER RIAL /INSOFAR AS
AVAILABLES AND VEHICLE NUMERS WILL BE PROVIDED TO AL A AND AGENCIES
PAGE THREE RJUZN CF

AL

AND OFFICES OF PRIMARY CONCERN, FOR EXAMPLE, FLIGHT NUMBER 1-THOR_160-
VEHICLE 1019, FLICHT NUMBER II-THOR 163-VERICLE 1022, ETC. THESE MASTER
LISTS VILL DE KEPT CURRENT AT ALL TIMES AND BOOSTER SERIALS ADDED AS
THEY BECOME KNOWN. ALL REPORTING TRANSMISSIONS PERTAINING TO THE 25° FEB
FLIGHT WILL DE DESIGNATED DISCOVERER 1-163-1922. THIS, USED IN CONJUNC-
TION WITH THE MASTER LIST, WILL INDICATE TO THE RECIPIENT THAT TRIS VAS
HE SONEDEULED SECOND LAUNCHING VEHICLE. IF THE SECONO LAUNCH ATTEMPT
RESULTS IN COMPONENT REVISION WITHOUT A FIRING REPORTED BY THE PRESS
DISCOVERER I WILL BE USED AGAIN IN CONJUNCTION WITH THE MASTER LIST AND
VENICLE NUMBERS DESIGNATED, AS APPROPRIATE, FOR THE THIRD FLIGHT, THIS
PROCEDURE WILL APPLY TO AL SUBSEQUENT LAUNCHINGS.

IF THESE PROCEDURES OUTLINED POSE UNACCEPTABLE PROBLEMS TO OFFICIAL RE-
PORTING CHANNELS, COMMENTS AND SUGGESTIONS SHOULD BE FORWARDED TO THE
DIRECTOR, ARPA, BY 1200 EST, 24 FEBRUARY 1959. UNLESS SUCH COMMENTS RE-
SULT IN A FOLLOW-UP ARPA DIRECTIVE TO BE ISSUED BY 1800 EST, 24 FEBRUARY
THIS DIRECTIVE WILL BE PROMPTLY DISSEMINATED TO APPROPRIATE PROJECT AND
PUBLIC INFORMATION OFFICES FOR INFORMATION AND STRICT COMPLIANCE.

KT

THIS IS CAT AC MSC
20/0435Z FEB RJWZNF

*

:
:
!
:
FOR COLARIS. CURTIN
FEB 16 1959
Resort of Investigation of Minuile YenK Minhup
COYMER Vakfale 1019
1. I have reviewed the subjent report and escour
conclusions and recommendations arrived at therein..
2. I have, by separate action, copy attached, requested –
Mr. L.
Bagane
Rost, MD, to initiate certain of indicated
nation.
3. You are directed to implement
mentation Fb. 6 of
E, page 29 of the report in that you are to establish
qualified Air Forch Survey Team to investigate the drawing
tions
and procedures: at LJUD for acceptable conformance with
Air
Force
standards. In this regard you are authorised to make ·
ure
, on a temporary basis, of highly qualified personnel from
within all
portions of AFBMD after coordination with the concerned
Deputy Commander.
1 msk.
Gy Ltr to
Mr. Root, LMBD
SIGNED
B. A. SCHRJIJVER
Major General, USAF
Commander
WIEW
Col Oder
13 Feb 59 dl
1822
DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED
AFTER 12 YEARS.
DOD
DIR 5200.10

i

CONFIDENTIAL

L. Eugene Root
Vice President & General Manager
Lockheed Aircraft Corporation
Missiles and Space Division
851 Hanover Street.
Falo Alto, Qalifornia

Dear Mr. Hoot:

16 FEB 1959

DOWNGRADED AT 3 YEAR INTERVALS:

DECLASSIFIED AFTER 12 YEARS,

DOD DIR 5200.10

This letter is written in confirmation of curtain of the items
discussed at our meeting in my office on 16 February 1959.

I have, inclosed the conclusions and recommendations of the Missile
Test Mishap Investigating Committee established to investigate the mis-
hep associated with the attempted launch of DISCOVERER Vehicle 1019 on
21. January 1959.

During their investigation the Committee reviewed the report of
WW-1172 Management Survey Team which coured at IMD; Palo Alto,
Califomis, on 25 August 1958, in light of the airomstances - surround-
ing the missile mishap. Pertinent points on which action appears to be
incomplete or ineffective at this time are outlined in the fallowing
quotations from the 23 September 1958 report to the Commander, AFBHD,
by the Survey Tom.

(paragraph 20h, Survey Team Report) "Perkaps
outstanding deficiamay noted by the team is the
general lack of established prosedures and controls
designed to coordinate the efforts of a large and
expanding organisation and to insure timely recogni-
tion of potential trouble spets in order that remedial
action may be taken. Far toe many procedures are uni-
written and decisions of great importance are being
made at low levels with little, if any, management
review.

see funkheed

file

regaly

ENTIAL

:
(5),
better
tivity at all
antial trouble
mt levels
ots. This shout
control of vehiale and (OE
sternal Audit program,, test misting systems.
and procedures and to determine the need for new ar
systems and procedures.
It is re
following reu
ment of the
your organisation initiate without delay the
Interest of effective accomplish-
action in
VIKER. Progr
Effect those stupe neomssary
recommendations 1 through 5 of Inclomure 2. With
soulpishment of
ference to Item 6
of Inclosure 2, I vill, by separate action, establish a qualified Air
Force Survey Team to investigate the drawing practices and procedure,
at £1000 for acceptable conformance with Air Paros standards.
Continue your efforts to meet the needs indiented in the
Managment survey Report of 23 September 1998, particularly those
portions cited above.
1.
2 Incls.
Conclusions
2. ndations
ORIGINAL SIGNED:
B. A. SCHRIEVER
B. A. SERAINE
Major General, UMF
Gmunder
Cal Oder
d1(13
1822
AL

IAL
DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS. .
DOD DIR 5200.10
OR Fahicle 1019 occurred when ground
(at 1-60 during the sunbios to start the hydrwulia
gimballing. As a result of hard-wire connection
ullage rocket and hydraulic pu circuits, the ullage rocket
routkay vus activated and the rockets fired. The heat from the ullage
rocketa fuset vires in. a J-box and started the "D" timer. The "p"
as designed for flight, fired the pin-pullers, rekro rockets,
separation bolts, and the horison scanner ejection meci
2. The wiring that caused the premature firing of the ullage rockets
on Vehiale 1019 was designed into the vehicle and was not affected by any
change after the vehicle left manufacturing.
3. The test procedure in the countdown that led to the pre
firing of the ullate rocketa vas included in the first druft of the
countdown manual and also in all following revisions.
Before the attempted launch of Vehicle 1019 on 21 January, there
no formal review within the Development Division of ID for syproval
of WN 127h test proonfures from standpoint of adequacy or system
atibility. .
5. more was a ground: safety ciert in the blockhouse-to-ped wiring
hat was designed to automatically stop the "" timer in 0.35 seconds in
the event of premature notation. However, incorrect wiring in this
afmrnt prevented its operation and the "p" timer ren for approximately
28 seconds, at which time all power to the vehicle was turned off. This
cirquetry error permitted firing of the balance of the vehicle pyrotechnics
listed in paragraph 1 above.
6. During the installation and checkout of the blockhouse wiring, a
series of changes was made in the circuit discussed in paragraph 5 above.
After hase changes were completed, there was no functional test run on
the airmnt.
7. Then we no assignment of responsibility for the analysis and
ation, from a systems standpoint, of the circuit design which fired
ullage roskata,
8. At no time during teste performed in Modification and Checkout,
Santa Crus Test Base, or at Vandenberg Air Force Base, was the series
operations during omentday simulated in a manner adequate to reveal
design-defect.
9. The installation of monitors on the connections for the pyrotechnius
Fundesberg Air Force Base would have revealed the wiring defects during
ress rehearsals.
:
AL
■■■

i
:
lnal 1.
correlating
in finding
This confusion omuld høre
to identify the viring defen from examinat
erw questioned
roper dresings and
mtributed to the failure
drawings.
20