

PROJECT 10073 RECORD CARD

1. DATE 24 Nov 55	2. LOCATION Hokkaido, Japan	12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☒ Was Astronomical Moon ☐ Probably Astronomical ☐ Possibly Astronomical ☐ Other _____ ☐ Insufficient Data for Evaluation ☐ Unknown
3. DATE-TIME GROUP Local _____ GMT 24/1613Z	4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar	
5. PHOTOS ☐ Yes ☒ No	6. SOURCE military (F-86 Pilot)	
7. LENGTH OF OBSERVATION 5 min	8. NUMBER OF OBJECTS 1	9. COURSE sta
10. BRIEF SUMMARY OF SIGHTING On mission at 25,000 a red glow of high intensity was sighted (stationary). First looked like a/c on fire or afterburner. First spherical shape, then changed to oblong, retaining brightness. Glow disappeared gradually within 5 min.		11. COMMENTS Refraction of setting moon. See Dr Hynek's evaluation

Ref: Case: 24 Nov. 1955
Hokkaido, Japan.

The sighting of a red glow was reported as of 16:13 Z at long. 140° E. and 52° N, on Nov. 24, 1955. Glow reported to have been low on horizon, at azimuth (bearing) 312° .

It was of interest to compute the azimuth of the gibbous moon at that instant (16:13 Z) at Hokkaido.

For this purpose, we note that at that time the right ascension of moon was approx. $23^{\text{h}} 32^{\text{m}}$, and its declination, approx. $+2^{\circ} 42'$.

Computation shows that the local sidereal time at ^{Greenwich} Hokkaido at G.C.T. $16^{\text{h}} 13^{\text{m}}$ was $20^{\text{h}} 24^{\text{m}}$.

and at H₀Kaido it was therefore $5^{\circ} 48''$. The hour angle of the moon (t) was therefore $6^{\circ} 16''$.

To obtain the azimuth of the moon, we employ:

$$\tan Z = \frac{\sin t}{\cos \phi \tan \delta - \sin \phi \cos t}$$

where Z = azimuth, ^{angle} ~~on bearing~~
 t = ^{hour} hour angle of moon
 ϕ = latitude
 δ = declination of moon.

Making the proper ~~cor~~ substitutions we find that

$$\tan Z = 1.180 \text{ (approx)}$$

$$Z \approx 49^{\circ} \frac{1}{2} \text{ W.}$$

The azimuth A is therefore $360 - 49^{\circ} \frac{1}{2} = 310^{\circ} \frac{1}{2}$.

Since the reported bearing was 317° , it would appear that

the glow and the position of the
setting moon* at that time
~~was~~ were ~~as~~ identical within
allowable error of observation.

Moon set at Hopkinds that
~~the~~ morning at approx 2 A.M.

Local time of sighting was

1:37 A.M.

The moon

was, therefore, about to set.

Further substantiation of
identity of object sighted
with the moon is hardly
needed, but it can be pointed
out that at moonset, as ~~at~~ ^{is} ~~at~~ ^{the}
sunset case for sunset, the
atmosphere causes the moon
to appear a quite red. This, ~~as~~
as is also the case with the
setting sun, atmospheric
refraction causes the moon to
appear somewhat oblong in
shape.

The presence of ^{thin} clouds at this time would tend to exaggerate the effect.

PARAGRAPH NOT REQUIRED EXCEPT PRIOR TO
CATEGORY B ENCLOSURE—PHYSICALLY REMOVE
ALL INTERNAL REFERENCES BY DATE-TIME GROUP
PRIOR TO DECLASSIFICATION

Classification Cancelled
OR Changed to UNCL
Auth: NER 205-10
POPA 2-176 (11)
By H. Quintanilla

UNCLASSIFIED

01A031
TO RJEDEN RJEDWP
DE RJEPHQ 124
FM HELUSAF WASHDC
TO RJEDEN/CINCONAD ENT AFB COLO
RJEDWP/ATIC WRIGHT PATTERSON AFB DAYTON OHIO
BT

[REDACTED] FROM CLN AFOIN-2A1 52776 FOLLOWING UNEVALUATED MESSAGE
RECEIVED FROM CMDR FEAF ON 1 DEC PASSED TO YOUR HQ AS UFOB CLN
QUOTE CLN ON 25 NOV AT 21131 (241613Z) A PILOT IN AN F-35D ON A
TACTICAL MISSION CMM WHITE AT 25,000 FT ALT AT POS 43-52N/141-45E
CMM SIGHTED A RED GLOW OF HIGH INTENSITY. HE TURNED ACFT TO HEAD
312 DEGREES CMM AND THE ACFT WAS HEADED TOWARD THE GLOW. GLOW
APPEARED STATIONARY AT 200 MILES DIST. APPROX SIZE WAS ONE INCH
DIAMETER AT ONE YARD DIST. THE GLOW AT FIRST LOOKED LIKE AN ACFT ON
FIRE CMM OR AN AFTER-BURST. GLOW WAS FIRST IN A SPHERICAL SHAPE
CMM THEN SPREAD INTO AN OBLONG SHAPE CMM RETAINING ITS BRIGHTNESS.
TWO MINUTES WERE REQUIRED TO DEVELOP SPHERE AND BRIGHTNESS CMM AND
AN ADDITIONAL TWO MINUTES TO SPREAD INTO AN OBLONG SHAPE. AT THE END
OF FOUR

UNCLASSIFIED

PAGE TWO RJEPHQ 124
MINUTES APPROX ONE-FIFTH OF THE GLOW AREA HAD BECOME OBSCURED.
AT 2501131 THE GLOW WAS GONE. COLOR DURING SIGHTING WAS DEEP
RED WITH ORANGE TINT. HOKKAIDO WEATHER AT TIME OF SIGHTING WAS
OVERCAST FROM SIX THOU TO TWELVE THOU FT. CLEAR ABOVE TWELVE THOU
CMM NO MOON CMM AND PITCH BLACK. FEAF COMMENT CLN THIS INFO WAS
DELAYED AS IT HAD BEEN IN THE PROCESS OF BEING TREATED AS A ROUTINE
REPORT CMM TO BE PUT ON AN IR CMM AS IN THE PAST CMM REPORTS OF
THIS NATURE HAVE BEEN TRANSMITTED BY IR RATHER THAN BY RADIO.
UNQUOTE NO ADDITIONAL INFO THIS HQ TO ASSIST IN EVALUATION.
BT
31/1924Z DEC RJEPHQ

UNCLASSIFIED

1-4E
2-4E
3-4E4

4 4X2a
MIS

755-20749-1

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

AC

PARAPHRASE NOT REQUIRED EXCEPT PRIOR TO
CATEGORY 3 ENCLOSURES. PHYSICALLY REMOVE
ALL INTERNAL REFERENCES BY DATE-TIME GROUP
PRIOR TO DECLASSIFICATION. NO UNCLASSIFIED
REFERENCE IF THE DATE-TIME GROUP IS QUOTED

ENCODED

Initials

Time

Checked By

15169

FROM: (Originator)

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

COMDR ATIC

DATE-TIME GROUP

021130Z Dec 55

PRECEDENCE ACTION

FOR:

UNCLASSIFIED

☐ BOOK MESSAGE☒ ORIGINAL MESSAGE☐ MULTIPLE ADDRESS

CRYPTOPRECAUTION

☐ YES☐ NO

REFERS TO MESSAGE:

IDENTIFICATION

52776

CLASSIFICATION

TO: D/I HQ USAF WASHINGTON 25 D C

2c-41208

INFO:

FROM: AFOIN-4E4

FOR: AFOIN-2A1

Reference your message 52776 dtd 011902Z Dec concerning UFOB sighting by F-86
pilot over Hokkaido, Japan. Preliminary evaluation by ATIC as follows: Probable
reflection of moon through cloud layer.

Moon at that time of year was in first quarter and set sometime around midnight.
The reflection of sunlight from the moon through a cloud layer would result in the
cloud filtering the blue from the reflection and thus leaving a reddish-orange glow.
The moon would not be visible to the observer due to its low position on the
horizon and its obstruction from view by existing cloud layers.

COORDINATION:

4E4 H. A. Miley DATE 12/5/55
Dr. H. A. Miley

UNCLASSIFIED

T55-20818

DRAFTER'S NAME (and signature, when required)

Albert W. Drepperd
DREPPERD, ALBERT W, T/Sgt, USAF

SYMBOL

AFOIN-4E4

TELEPHONE

69216

OFFICIAL TITLE

8 DEC 1955

MARY L. STORM
1st Lt. USAF
Assistant Adjutant

PAGE 1 OF 1 PAGES

DD FORM 173

1 OCT 49

REPLACES NME FORM 173, 1 MAY 49,
WHICH MAY BE USED.

69-16-58923-4 U. S. GOVERNMENT PRINTING OFFICE

Muti

ACTION 4

UNCLASSIFIED

HQ 022

RR RJEDWP

RR RJEDEN RJEDWP

DE RJEPHQ 103

R

FM HEDUSAF WASHDC

TO RJEDEN/CINCONAD ENT AFB COLO

RJEDWP/ATIC WRIGHT PATTERSON AFB DAYTON OHIO

BT

PARAPHRASE NOT REQUIRED EXCEPT PRIOR TO
CATEGORY B ENCRYPTION—PHYSICALLY REMOVE
ALL INTERNAL REFERENCES BY DATE-TIME GROUP
PRIOR TO DECLASSIFICATION

A

*Susp 12/19/55 134E4
4x2a
4- Rfile*

// [REDACTED] /FROM CLN AFOIN-2A1 53032 REFERENCE IS MADE TO HQ.
USAF 52776 CMM DATED 1 DEC 1955. FOLLOWING UNEVALUATED MESSAGE. CMM
ON SAME SUBJECT CMM FROM COMDR FEAF ON 3 DEC PASSED TO YOUR HEADQUARTERS.
QUOTE CLN THE FOLLOWING INFO FROM THE 39TH AIR DIV INCLUDING A PILOTS
INTERROGATION REPORT IS FORWARDED FOR YOUR INFO CLN
1. EVALUATION OF PILOT CLN 1/LT DURFEY CMM MILES CMM AO 2228024
CMM 339 FIS IS CONSIDERED A COMPLETELY RELIABLE SOURCE. THE DEBRIEFING
OFFICER EVALUATED THE SOURCE AND PROBABILITY OF THE INFORMATION AS
A-2. LT DURFEY HAS BEEN EN EYEWITNESS TO APPROXIMATELY SEVEN
PREVIOUS NUCLEAR EXPLOSIONS FROM THE GROUND DURING MARCH TO JUNE 1954
CMM FROM LAS VAGAS CMM NEVADA CMM APPROX 80 MILES AWAY. FURTHER
STATES HE HAS SEEN NUMEROUS TRAINING FILMS AND MOVIES OF EXPLOSIONS.

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PAGE TWO RJEPHQ 103

IT IS HIS OPINION THAT IT WAS AN ATOMIC BURST AND THAT'S ALL IT COULD
HAVE BEEN.

2. LT DURFEY STATED ORIGINALLY THAT HE THOUGHT IT WAS AT LEAST 200
MILES AWAY CLN LATER MATHEMATICAL COMPUTATIONS BY HIM PLACED THIS
FIGURE AS BETTER THAN 500 MILES. PARAGRAPH 3.02 CMM CAPT 3. VOL II.
RADIOLOGICAL DEFENSE. NOV 51 PUBLISHED BY ARMED FORCES SPECIAL WEAPONS
PROJECT STATES CLN QUOTE IN ONE OF THE TEST EXPLOSIONS AT NEVADA
IN 1951 THE GLARE IN THE SKY CMM IN THE EARLY HOURS OF THE DAWN WAS
VISIBLE OVER 400 MILES AWAY. UNQUOTE. FROM 25,000 FEET IT IS POSSIBLE
THAT LT DURFEY COULD HAVE SEEN THE BALL OF FIRE AT 400 OR EVEN MORE
MILES AWAY. FURTHER THE ABOVE MENTIONED VOLUME STATED THAT A HIGH
AIR BURST WOULD START AT 4,000 AND GO UP TO 30,000 TO 60,000 FEET.

3. THE FOLLOWING IS COPY OF THE SIGNED STATEMENT MADE BY LT DURFEY
WHICH IS IN THE MAIL TO YOUR HEADQUARTERS CLN QUOTE. AT 0106 HOURS
CMM 25 NOVEMBER 55 CMM I WAS SCRAMBLED OUT OF CHITOSE UNDER THE CALL
SIGN OF "SHARPY REC." THE MISSION WAS TO INVESTIGATE A CCI RADAR
PICKUP OF A PRESUMABLY UNKNOWN AIRCRAFT. THE VECTOR FOR OUR FLIGHT
OF TWO F-86D AIRCRAFT WAS GIVEN TO US 360 DEGREES CMM AND WE WERE TO
ACENT TO AN ALTITUDE OF 25,000 FEET WHILE CLIMBING OUT ON THIS HEADING.
IMMEDIATELY AFTER TAKEOFF CMM MY WINGMAN'S RADIO RECEIVER BECAME
INOPERATIVE AND COULD NOT BE CONTACTED FOR THE REMAINDER OF THE FLIGHT.
I WENT INTO A THIN OVERCAST AT ABOUT 6,000 FEET AND BROKE OUT AT
12,000 FEET. MY WINGMAN AT THIS TIME WAS APPROX FIVE MILES BEHIND

UNCLASSIFIED

CLOUD LAYER - 6,000' - 12,000'

PAGE THREE RJEPHQ 100

AND WAS FOLLOWING ME WITH THE AID OF HIS RA. THERE WERE NO CLOUD CONDITIONS OF ANY KIND ABOVE LAYER. FOR MENTIONED CMM AND THE VISIBILITY WAS EXTREMELY GOOD. AT APPROX 01131 CMM LOCATION WD 6560 CMM ALTITUDE 25,000 FEET AND ON HEADING OF 360 DEGREES. I BECAME AWARE OF A RED GLOW TO MY LEFT. AT FIRST IT APPEARED TO BE A REFLECTION FROM THE COCKPIT INSTRUMENT LIGHTS CMM BUT I ELIMINATED THAT POSSIBILITY BY PUTTING MY HAND AGAINST THE CANOPY AND PEERING THROUGH TWO SPREAD FINGERS WITH MY HEAD AGAINST MY HAND. I NEXT THOUGHT THE GLOW MAY BE COMING FROM AN AIRCRAFT ON FIRE CMM BUT AS THE LIGHT WAS NOT MOVING CMM THIS POSSIBILITY WAS ALSO ELIMINATED CMM I NEXT THOUGHT THAT THE GLOW MIGHT BE COMING FROM THE AFTERBURNER OF ANOTHER AIRCRAFT CLOSE BY. THIS POSSIBILITY WAS ELIMINATED BY TURNING INTO THE DIRECTION OF THE GLOW. THE GLOW REMAINED STATIONARY AND A HEADING OF 312 DEGREES WAS ESTABLISHED TO PLACE THE LIGHT DIRECTLY AHEAD OF THE AIRCRAFT. AS THE MISSION WAS STILL IN PROGRESS I TURNED BACK TO A HEADING OF 360 DEGREES. AT THIS POINT IT WAS ESTIMATED THAT A LITTLE MORE THAN TWO MINUTES HAD ELAPSED. SHORTLY AFTER THE TURN WAS STARTED CMM THE GLOW BEGAN TO FLATTEN OUT FROM ITS ORIGINAL SPHERICAL SHAPE PAREN TO CLARIFY A STATEMENT MADE IN AN EARLIER REPORT CMM THIS OBLONG OR FLATTENED STAGE COULD BE COMPARED TO THE WELL KNOWN " MASHROOM" STAGE WHICH RESULTS AFTER AN EXPLOSION OF THIS KIND. HOWEVER CMM THE STEM CMM IF THERE WAS ONE CMM OF THIS MUSHROOM STAGE WAS NOT VISIBLE. PAREN THIS GLOW WAS FLATTENED ON A HORIZONTAL PLANE AND THE ILLUMINATION IN THIS STAGE LASTED FOR APPROX TWO MINUTES. AFTER THIS STAGE THE LIGHT FADED OUT MODERATELY

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PAGE FOUR RJEPHQ 103

FAST CMM I.E. IN LESS THAN THIRTY SECONDS. MY LOCATION WAS WD 8585 CMM WTNPPP FEET CMM 11181. THE TOTAL PERIOD OF MY OBSERVANCE THUS WAS ABOUT FIVE MINUTES. TO APPROXIMATE THE SIZE OF THE GLOW CMM A SPHERE ONE-HALF INCH IN DIAMETER HELD AT A ONE YARD DISTANCE FROM THE EYE WOULD SHOW IN COMPARISON WHAT I SAW FROM THE COCKPIT. AT 500 STATUTE MILES THIS WOULD MAKE THE DIAMETER OF THE SPHERE TO BE SLIGHTLY LESS THAN SEVEN MILES ACROSS. THE COLOR OF THE GLOW THROUGHOUT THE ENTIRE TIME WAS A DEEP RED WITH AN ORANGE TINT. IT APPEARED THAT THE HIGHEST INTENSITY OF THE LIGHT WAS REACHED JUST PRIOR TO THE FLATTENING-OUT PROCESS. IN THE LATTER PART OF THE OBSERVANCE PERIOD AN ELONGATED DARK OBJECT APPEARED HORIZONTALLY TO THE LEFT AND IN THE MIDDLE OF THE SPHERE. THIS CLOSELY RESEMBLED A CLOUD FORMATION AND BLOCKED OUT APPROXIMATELY ONE-FIFTH OF THE SPHERE. I WAS UNABLE TO CONTACT MY WINGMAN. I COULD NOT GET HIM TO VERIFY ANY OF THIS INFORMATION. UNQUOTE.

FEAF COMMENT CLN AT THE TIME OF INCIDENT THE MOON WAS AT 191 DEGREES FROM THE POSITION OF THE AIRCRAFT THE MOON SET AT 01011 ON THE DATE OF THE INCIDENT. THERE IS NO ADDITIONAL EVIDENCE TO SUBSTANTIATE THAT THIS WAS AN ATOMIC EXPLOSION. HISTORICALLY CMM THERE IS NO RECORD OF NUCLEAR EXPLOSIONS IN THIS AREA. UNQUOTE

REQUEST AFOIN-4 EVALUATION AS SOON AS POSSIBLE.

BT

07/1832Z DEC RJEPHQ

UNCLASSIFIED

755-21200-

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

15489

PARAPHRASE NOT REQUIRED EXCEPT WHERE
CATEGORICAL INFORMATION—PRIORITY
ALL INFORMATION IS TO BE
PRIOR TO DECLASSIFICATION AND
REFERENCE IF THE DATE-TIME GROUP IS

AC

FROM: (Originator)

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

CBMDR ATIC

DATE-TIME GROUP

121245Z Dec 55

PRECEDENCE
FOR:ACTION
Routine

INFORMATION

UNCLASSIFIED

TO:

D/I HQ USAF WASHINGTON 25 D C

☐ BOOK MESSAGE☐ ORIGINAL MESSAGE☐ MULTIPLE ADDRESS

CRYPTOPRECAUTION

☐ YES☐ NO

REFERS TO MESSAGE:

IDENTIFICATION

52776 53032

CLASSIFICATION

INFO:

FROM: AFOIN-4E4

FOR: AFOIN-2A1

Reference your messages 53032 dtd 071826Z Dec and 52776 dtd 011902Z Dec. Although the time element and description of the glow could coincide with a nuclear explosion, it is unlikely that this cause initiated the report for the following reasons;

- a. Negative historical report from Far East sources maintaining ~~SEISMOGRAPH~~ ^{SEISMOGRAPH} vigil.
- b. No previous explosions reported from that particular location of the glow.

Reference our message IC 41208 dtd 021130Z Dec. Evaluation contained therein remains the same. However, one discrepancy remains to be clarified. In your message 53032, the following statement appears; "FEAF comment, at the time of incident, the moon was at 191 degrees from the position of the aircraft." Should this azimuth location read 291 degrees? A position of 191 degrees would locate the moon in a SSE direction at time of setting. A position of 291 degrees would establish the correct approximate location in the West at setting. T55-21507

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PAGE 1 OF ; 2 PAGES.

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator)

DATE-TIME GROUP

PRECEDENCE
FOR:

ACTION

INFORMATION

TO:

INFO:

☐ BOOK MESSAGE☐ ORIGINAL MESSAGE☐ MULTIPLE ADDRESS

CRYPTOPRECAUTION

☐ YES☐ NO

REFERS TO MESSAGE:

IDENTIFICATION

CLASSIFICATION

UNCLASSIFIED

Request clarification.

COORDINATION:

4E4

H. A. Miley
Dr. H. A. Miley

DATE

12/12/55

UNCLASSIFIED

T55-21507

PAGE 2 OF 2 PAGES

DRAFTER'S NAME (and signature, when required)

Albert W. Drepper DEC 15 51
ALBERT W. DREPPER, T/SGT, USAF

SYMBOL

AFOIN-4E4

TELEPHONE

69216

OFFICIAL TITLE

DEC 1955

T. J. CORNAR, JR.
MAJOR, USAF,
Adjutant

DD FORM 173

OCT 49

REPLACES NME FORM 173, 1 MAY 49,
WHICH MAY BE USED.

cD-16-58923-4 U. S. GOVERNMENT PRINTING OFFICE

HQ007

PP RJEDWP

PP RJAPAD RJEDWP RJEDEN

DE RJEPHQ 148

P

FM HED USAF WASH D C

TO RJAPAD/COMFEAF TOKYO JAPAN

INFO RJEDWP/AIR TECHNICAL INTEL CENTER WRIGHT-PATTERSON AFB OHIO

RJEDEN/CINCONAD ENT AFB COLO

BT

[REDACTED] FROM AFOIN-2A1 53453 YOUR INDICATIONS MESSAGES NO. 53 AND 56 PASSED TO AFOIN-4 (ATIC) FOR INFO AND EVALUATION. AFOIN-4 HAS REQUESTED CLARIFICATION YOUR MESSAGE WHICH STATES QUOTE AT THE TIME OF INCIDENT THE MOON WAS AT 191 DEGREES FROM THE POSITION OF THE AIRCRAFT END QUOTE

AFOIN-4 QUERRIES QUOTE SHOULD NOT THIS AZIMUTH LOCATION READ 291 DEGREES. A POSITION OF 191 DEGREES WOULD LOCATE THE MOON IN SSE DIRECTION AT TIME OF SETTING WHEREAS A POSITION OF 291 DEGREES WOULD ESTABLISH THE CORRECT APPROXIMATE LOCATION IN THE WEST AT SETTING END QUOTE. REQUEST YOUR COMMENT BE ADDRESSED TO AFOIN-4 (ATIC) WITH INFO AT ADC AND THIS HEADQUARTERS.

BT

15/2350Z DEC RJEPHQ

PARAPHRASE NOT REQUIRED EXCEPT PRIOR TO
CATEGORY B ENCLOSURE. PHYSICALLY REMOVE
ALL INTERNAL REFERENCES BY DATE-TIME GROUP
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INFORMATION

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16 DEC 1955 08 05

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4-4X2

FORM 805 THE STANDARD REGISTER DAYTON, OHIO

55-21827-2

called
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Dec 10 12 20 '55

LC

RB002 WPF046 YMA026 XYA085 QXC189 QDA038PQA152ADA051L

PP RJEDEN RJEDWP RJEPHQ

DE RJAPAD 101A

P 190746Z

FM COMDR FEAF TOKYO JAPAN

TO RJEDWP/COMDR ATIC WRIGHT PATTERSON AFB DAYTON OHIO

INFO RJEPHQ/COMDR HDQ USAF WASHINGTON D C

RJEDEN/COMDR ADC ENT AFB COLO

BT

UNCL DI-E 51664. ATTN AFOIN-4. ATTN AFOIN 2A1. INTERIM REPLY HDQ USAF

AFOIN 2A1 MESSAGE CITE 53453. SOURCE BEING QUERIED FURTHER. FINAL REPLY

WILL BE FORWARDED UPON RECEIPT OF INFORMATION.

BT

19/0750Z FEC RJAPAD

ACTION

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Lgc

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