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9/MAY

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THE FOLLOWING

IS FROM THE CIA/IMAGERY ANALYSIS DIVISION. CITE CIA-P-161.

1. MISSION 4027 (21 APR 66) REVEALS THAT THE EXTERNAL CONFIG-
URATION OF DUAL HEN HOUSE B AND C (FAT-BOYS) AT SARY SHAGAN MISSILE
TEST CENTER SITE 13 WILL PROBABLY BE DIFFERENT FROM THAT OF DUAL
HEN HOUSES A AND D (THIN-BOYS). THE SAME PROBABLY APPLIES TO THE
ANGARSK DUAL HEN HOUSE FACILITIES. (SEE PAGES 4 AND 27 OF CIA/PIR-
[Redacted] DATED APRIL 1965, "DUAL HEN HOUSE RADAR SITES-ANGARSK,
SARY SHAGAN, AND OLENEGORSK, USSR".) THE SUSPECT FEED-ASSOCIATED
STRUCTURES ("PIANO KEYS") AT DUAL HEN HOUSE B ARE NOW COVERED BY A
RAISED SURFACE WHICH CONNECTS THE SUSPECT TRANSMITTER AND TERMINAL
HOUSES FLANKING EACH OF THE ANTENNAS.

2. SOUTHERN ANTENNA (B-2) OF DUAL HEN HOUSE B

SPACED AT INTERVALS ALONG EACH SIDE OF THE COVERED,
CENTRALLY LOCATED CHANNEL OF SUSPECT FEED ASSOCIATED STRUCTURES, ARE
ROUGHLY RECTANGULAR, MESH-LIKE ARRAYS WHICH APPEAR TO BE HORIZONTALLY
MOUNTED OVER WHAT WAS PREVIOUSLY BELIEVED TO BE FOOTINGS FOR VERTICAL
STRUCTURAL MEMBERS. THESE POSSIBLY HORIZONTAL, MESH-LIKE ARRAYS
GIVE THE SOUTHERN ANTENNA OR ANTENNAS A TOTAL WIDTH OF APPROXIMATELY

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Approved for automatic
downgrading and
declassification

165 FEET, WHEREAS THE ROWS OF FOOTINGS BELOW WERE SPACED 110 FEET APART. THE MESH-LIKE ARRAYS ARE CONNECTED BY A NUMBER OF LATERAL MEMBERS, APPARENTLY OF DIFFERENT THICKNESS. EACH OF THE MESH-LIKE SECTIONS MEASURE APPROXIMATELY 65 FEET EAST-WEST AND 30 FEET NORTH-SOUTH, WITH THE FOLLOWING EXCEPTIONS:

A. THE SOUTHERNMOST, MESH-LIKE ARRAY ON EACH SIDE OF THE CENTRAL DIVIDING STRUCTURE MEASURES APPROXIMATELY 45 FEET IN THE NORTH-SOUTH DIRECTION.

B. THE NORTHERNMOST ARRAY ON THE WESTERN SIDE OF THE CENTRAL DIVIDING STRUCTURE IS NOT VISIBLE. IN ITS PLACE (OR COVERING IT) IS A STRUCTURE OR RAISED SOLID SURFACE MEASURING APPROXIMATELY 50 BY 35 FEET. A NEARBY CRANE INDICATES THAT CONSTRUCTION CONTINUES.

3. NORTHERN ANTENNA (B-1) OF DUAL HEN HOUSE B

A MIRROR IMAGE OF THE 50 BY 35-FOOT STRUCTURE OR RAISED SOLID SURFACE IS PRESENT. CONSTRUCTION CRANES ARE ALSO PRESENT NEARBY. THE WESTERN SIDE OF THE NORTHERN "HEN HOUSE" ANTENNA APPEARS TO HAVE A SIMILAR ARRANGEMENT OF EQUALLY DIMENSIONED AND SPACED MESH-LIKE ARRAYS SPACED ALONG THE ENTIRE LENGTH OF THE ANTENNA. THE SPACE BETWEEN SECTIONS, HOWEVER, IS NOT AS CLEARLY DEFINED. LATERAL, CONTINUOUS MEMBERS ARE ALSO PRESENT. THE PATTERN ALONG THE EASTERN SIDE OF THE CENTRAL STRUCTURE RESEMBLES A SERIES OF CURVED METALLIC MEMBERS. EACH MEMBER IS CONNECTED TO THE ORIGINAL OUTER FOOTINGS AT THE BOTTOM WITH THE OTHER END RESTING AGAINST, AND RISING SLIGHTLY ABOVE, THE CENTRAL SECTION WHICH COVERS THE "PIANO KEY" CHANNEL.

THE POSSIBLY CURVED MEMBERS ARE CONNECTED~~ED~~ LATERALLY BY AT LEAST THREE CONTINUOUS MEMBERS RUNNING THE LENGTH OF THE ARRAY. THIS EASTERN ARRAY GIVES THE IMPRESSION OF A HUGE, SHALLOW, PARABOLIC TROUGH WITH THE CONCAVE PORTION FACING UPWARD AT A VERY HIGH ANGLE OF ELEVATION.

4. CONSTRUCTION ON THESE ARRAYS AT DUAL HEN HOUSE B PROBABLY BEGAN SOMETIME BETWEEN [REDACTED]

25X1

[REDACTED] PROGRESS WAS APPARENT ON EACH SUBSEQUENT MISSION OF GOOD QUALITY. THIS LATEST COVERAGE REVEALS APPROXIMATELY 75 PROBABLE CRATES AND NUMEROUS PILES OF CONSTRUCTION MATERIALS, INCLUDING PROBABLE STRUCTURAL STEEL, ON BOTH SIDES OF THE DUAL HEN HOUSE CONSTRUCTION. THE CRATES ARE GENERALLY SIMILAR IN SIZE AND AVERAGE APPROXIMATELY 30 BY 10 FEET.

25X1

5. NO SIGNIFICANT CHANGE IS NOTED AT DUAL HEN HOUSE A (THIN-BOY TYPE).

6. AT DUAL HEN HOUSE C (THE OTHER FAT-BOY TYPE AT SITE 13), NO SIGNIFICANT CHANGE IS SEEN, HOWEVER, PILES OF CONSTRUCTION MATERIAL AND A CRANE CAN BE SEEN NEARBY. THESE WERE NOT PRESENT [REDACTED]

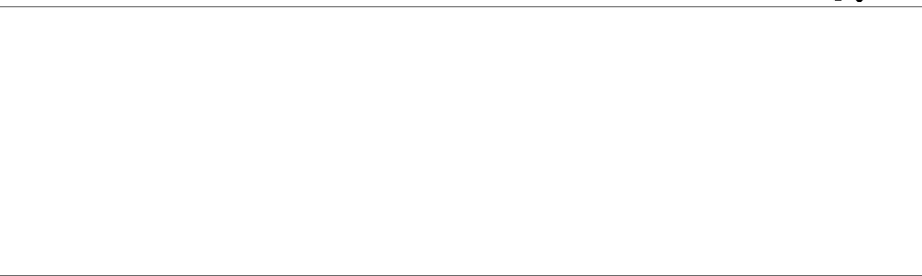
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7. CONSTRUCTION ON THE ROOF OF DUAL HEN HOUSE D (THIN-BOY TYPE) CONTINUES, WITH SOME PANELLING EFFECT VISIBLE ON THE FACE OF THE SOUTHERNMOST HEN HOUSE (D-2). NO PANELLING IS SEEN AT THE NORTHERNMOST HEN HOUSE (D-1) AND IT APPEARS THAT THE EASTERN TRUSSES ARE STILL OPEN TO THE ELEMENTS. THE "PIANO KEY" CHANNEL OF HEN HOUSE D-2 APPEARS COVERED AND CAN BE SEEN ENTERING THE SUSPECT TRANSMITTER

25X1

HOUSE.

8. THIS INTERPRETATION IS BASED PRIMARILY ON MONOSCOPIC VIEWING OF A SINGLE FRAME FROM MISSION 4027, THUS ALL REFERENCES TO HORIZONTAL, ELEVATED, OR CURVED OBJECTS MUST BE CONSIDERED WITH CAUTION, AS THE QUALIFYING STATEMENTS ABOVE SUGGEST.



T O P S E C R E T



/END OF MESSAGE/

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