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MAR 30 1955

MEMORANDUM FOR: General Schriever

SUBJECT: WS 117L Activities at AMTC

1. WS 117L Facilities Required at Same General AMTC, Florida.

a. Advanced Reconnaissance System Launch Complex

- (1) Blockhouse - Floor area to accommodate WS 107 and WS 107 Control Consoles and Instrumentation. (WS 107 Blockhouse will probably be adequate)
- (2) Two Operational Pads - Equipped to support WS 107 and AMTC.
- (3) Service Structure (Modified WS 107 type)
 - a. Accommodation for increased overall vehicle length. (15 - 30 ft.)
 - b. Access Platform for Orbiting Stage.
 - c. Fueling Capability for Orbiting Stage.
 - d. Ground Power Accommodations at Orbiting Platform.
 - e. Control Cables and Helium Lines at Orbiting Platform.
- (4) Fuel Handling Accommodations - For WS 107 and AMTC Power Plant Pads.

2. Proposed ARS Flight Test Schedule:

a. Non Orbiting - Modified JCBM Trajectories:

1958-March-ASM 65-B(or A)Booster+ARS From ASM 65 Launch Stand
June -ASM 65-B(or A)Booster+ARS From ASM 65 Launch Stand

b. Orbiting Trajectories

1958-15 August-ASM 65 A,B or C Booster+ARS From ARS Launch Complex
15 Sept. -ASM 65C A,B or C Booster+ARS From ARS Launch Complex

AMTA 56-11

DOWNGRADED AT 12 YEAR
INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

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1958-15 October-XSM 65C,A,B or C Booster+ARS From ARS Launch Complex
15 Dec. -XSM 65C,A,B or C Booster+ARS From ARS Launch Complex

(Following firings all from AES Launch Complex-into Orbiting Trajectories)

1959-XSM 65C-ARS	15 February	1960-WS 107+ARS	10 January
"	15 April		15 February
"	15 June		19 March
"	1 August		22 April
"	15 September		25 May
"	20 October		27 June
"	5 December		28 July
			28 August
			27 September
			26 October
			25 November
			20 December

(Allow 5 months slippage if
ISM 68 replaces ISM 65C for
Equipment Modification)

1961 - One/month
1962 - Fifteen/year
1963 - Six/First Quarter (Last ARS firing at AFMTC)
1963 - 2nd Quarter - Operations begun at Operational Launch Site
(Location not yet determined.)

3. Combined ARS - WS 107 Booster Operations

AES Flight Test Schedules, on its two operational pads, reach a maximum (one crew) rate of 6 firings/pad/year in 1962; in 1960 and 1961 the rate is 6/pad/year; pre-launch pad time/missile/pad is approximately 2 weeks during this 3 year period. Such a schedule affords three direct ICEH advantages: (1) Until the 2nd quarter of 1963, the WS 107 Project will receive booster ascent data from approximately 58 ARS firings with only a (2) firing ARS imposition on ISM 65 launch stands in mid 1958. (2) During this five year period of AFMTC AES flight testing, unused pad time could easily accommodate numerous Standard XSM 65 firings and/or many static tests on the temporarily unused AES launchers and service structure. (3) Starting in the 2nd quarter of 1963, the AES Project would probably vacate the AFMTC site and relocate at the Operational Test Site. This abandonment of the AES launch complex will provide the WS 107 program, in whatever phase, the utility of an extra 2 pad - blockhouse complex for an indefinite period.

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4. ARS Orbiting Stage Complexity

Over and above the normal ICBM Launch pad operations, the ARS itself involves the following checkout activities:

Telemetry	Auxiliary Power Supply
Guidance	(Battery, Chemical, Solar or Nuclear)
Propulsion and Fueling Controls	Intelligence Transmission and Reception
Environmental Sensing-Instrumentation	Overall Calibrations
Acquisition, Tracking and Command	Ground Data Handling and Reduction

The above combined launch activities require an overall ARS jurisdiction of operations, where the primary flight mission is ARS testing, however, much ICBM launch and ascent data will obviously be gained by WS 107 project interests.

SIGNED

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