

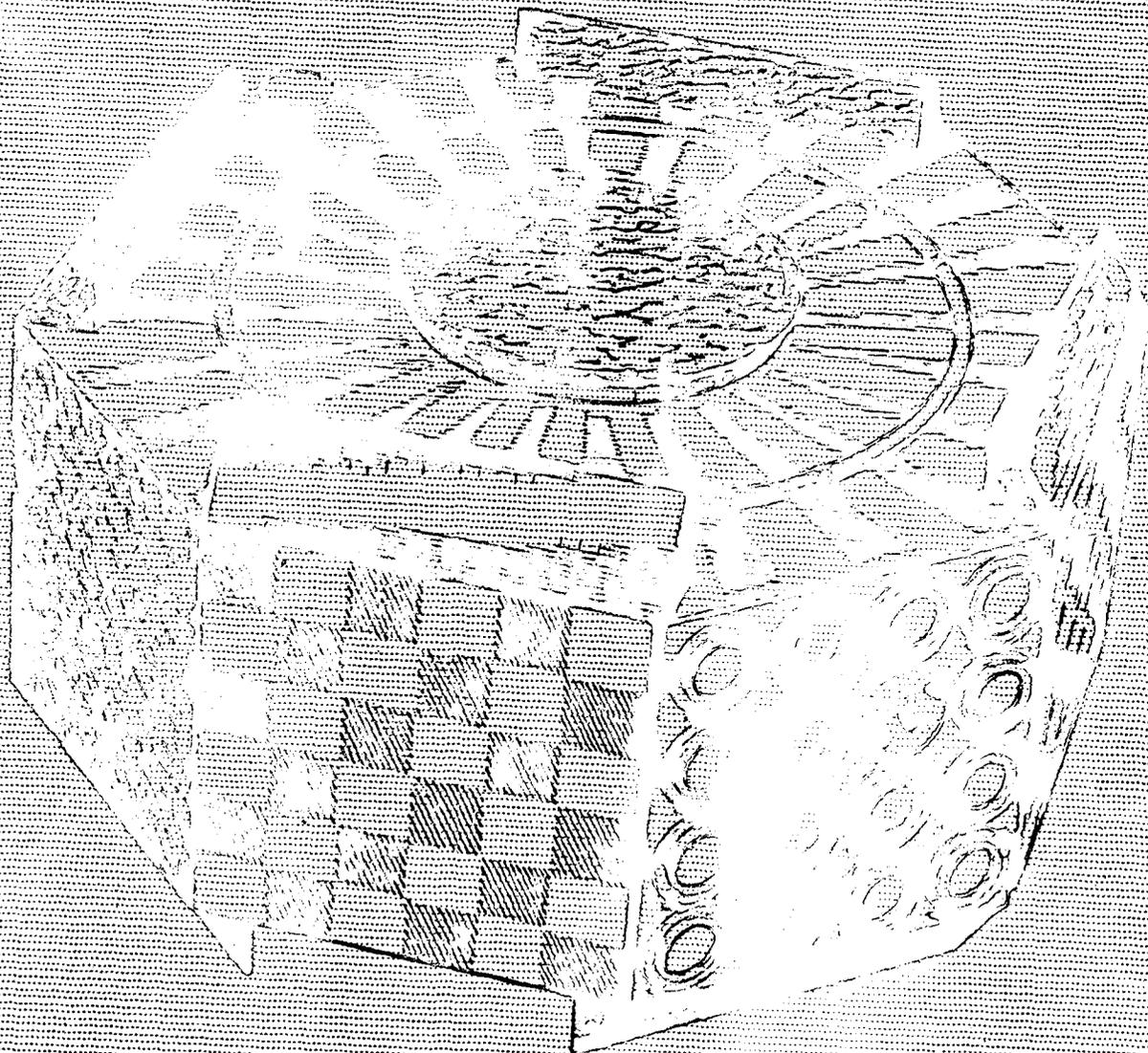
CHEMICAL RELEASE MODULE FACILITY

Presentation To

ACTIVE EXPERIMENTS WORKING GROUP

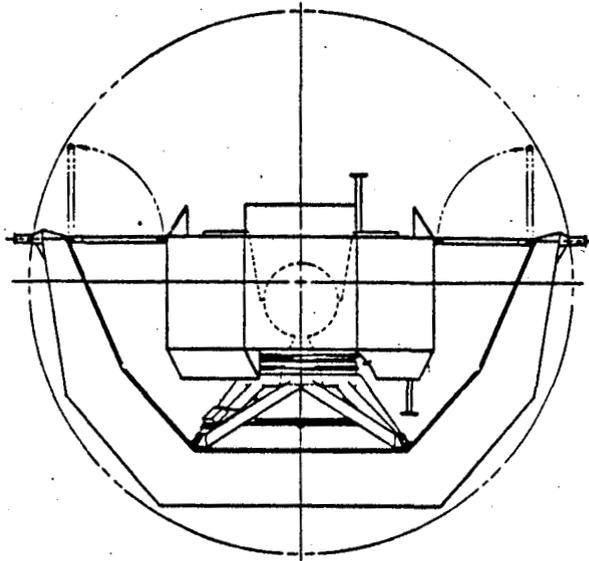
September 23, 1980

**David L. Reasoner
ES53
Marshall Space Flight Center**

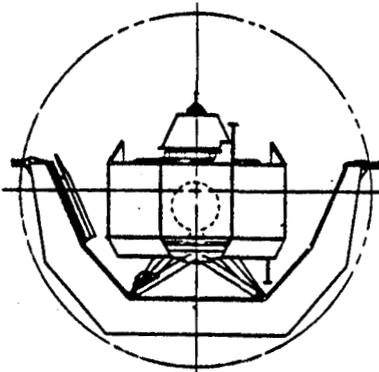


CHEMICAL RELEASE MODULE FACILITY (CRMF)

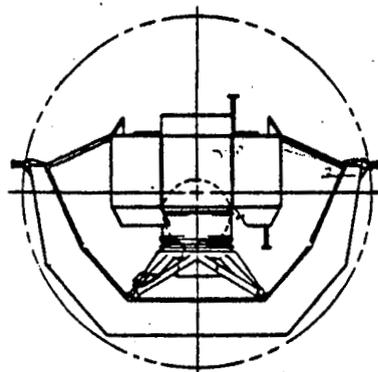
BASD



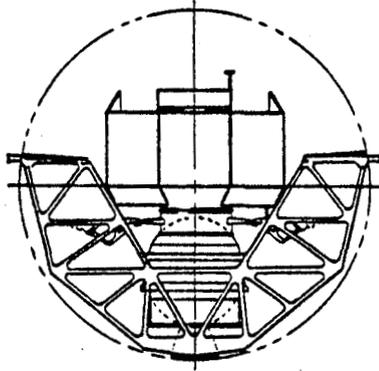
CRMF-1 CONFIGURATION



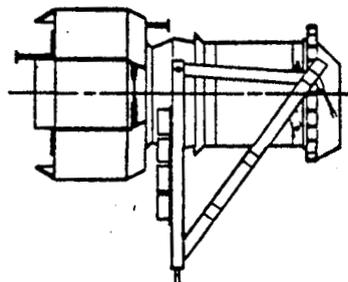
SPEE DEPLOYMENT COMPATIBILITY



94cm-DIA PKM COMPATIBILITY



SSUS-D COMPATIBILITY



SSUS-A COMPATIBILITY

Figure 2 CRMS Launch Arrangements

ORGANIZATION:	MARSHALL SPACE FLIGHT CENTER CHEMICAL RELEASE MODULE FACILITY	NAME: DATE:
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MILESTONE DATES

MARCH, 1979	CRM FACILITY ASSIGNED TO MSFC FOR PHASE C/D
NOVEMBER, 1979	RFP ISSUED FOR DESIGN AND FABRICATION OF CRM
MAY, 1980	ENVIRONMENTAL ASSESSMENT OF CRM COMPLETED
JULY, 1980	CRM DESIGN ,DEVELOPMENT, AND FABRICATION CONTRACT AWARDED TO BALL AEROSPACE SYSTEMS DIVISION, BOULDER, CO.
OCTOBER, 1980	RELEASE OF ANNOUNCEMENT OF OPPORTUNITY

242.

CRM DESIGN PROPERTIES

1. PROVIDES THE CAPABILITY TO CONDUCT:

- A. THERMITE-BASED METAL VAPOR RELEASES
 - B. PRESSURIZED GAS RELEASES
 - C. DISPERSED LIQUID RELEASES
 - D. SHAPED CHARGE RELEASES FROM EJECTED SUB-MODULES
 - E. DIAGNOSTIC MEASUREMENTS WITH PI SUPPLIED INSTRUMENTS
(ON-BOARD OR FROM EJECTED SUB-MODULES)
- } FROM EITHER
ON-BOARD OR EJECTED
CONTAINERS

2. PROVIDES A BASIC R-F AND ELECTRICAL SYSTEM:

- A. FOR RECEIVING AND EXECUTING COMMANDS
- B. FOR TELEMETERING HOUSEKEEPING (OR OTHER) DATA
- C. FOR TRACKING
- D. FOR MONITORING HOUSEKEEPING AND CONTROL UNITS
- E. FOR ULTRA-SAFE DIS-ARMING AND CONTROL MONITORING

FIGURE 22(a)

57° INCLINED ORBIT RELATIVE TO L-SHELLS AT 250 km

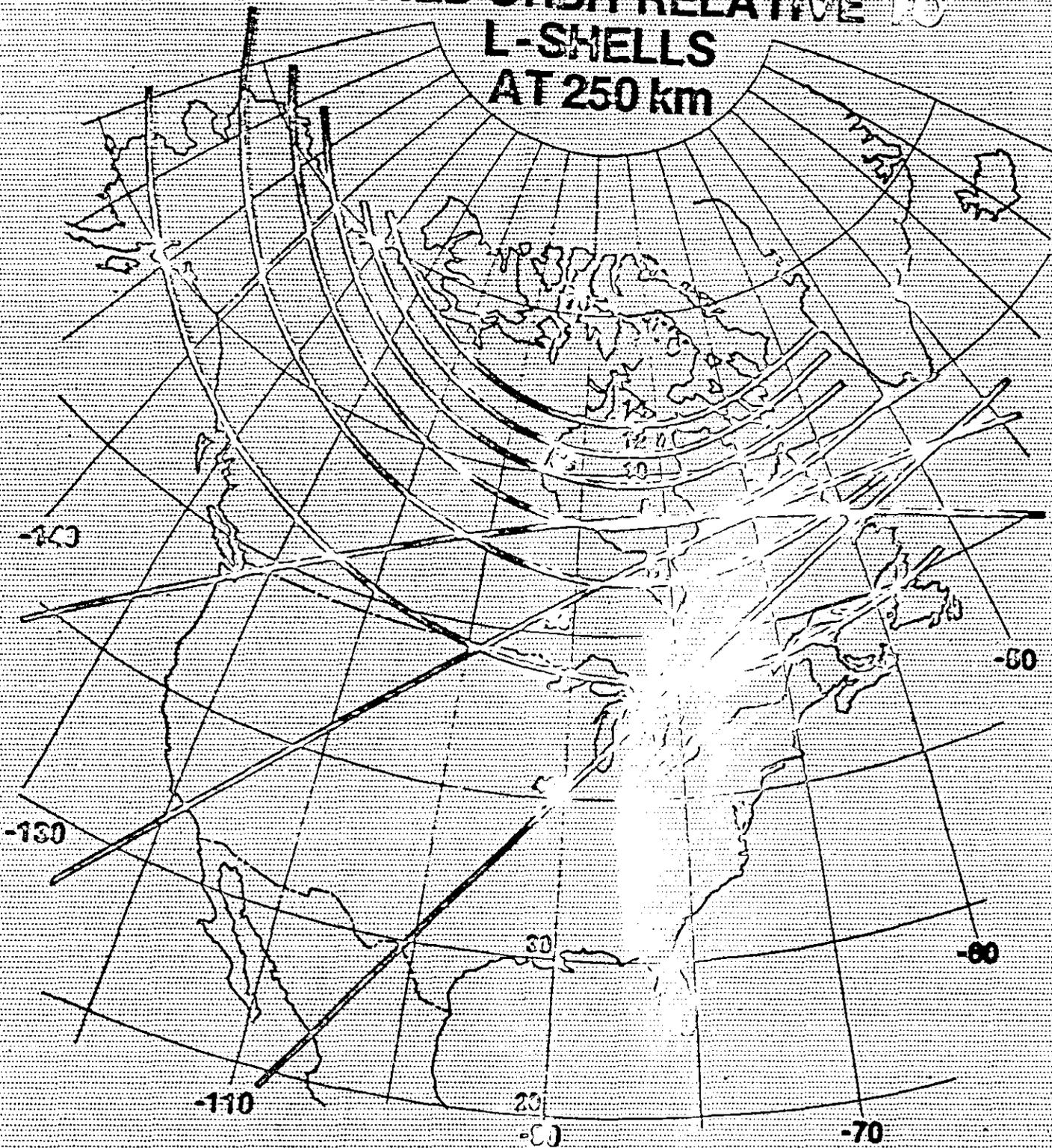


FIGURE 20