

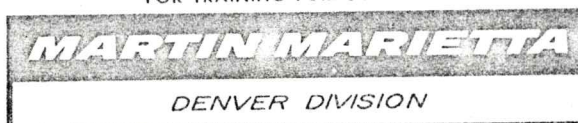
SKYLAB
EXPERIMENT BRIEFING

S193
SCATTEROMETER/RADIOMETER
ALTIMETER

Instructor
M. Tanner

SKYLAB CREW PREFLIGHT TRAINING

FOR TRAINING PURPOSES ONLY



S193 RADIOMETER/SCATTEROMETER/ALTIMETER

FOR TRAINING PURPOSES ONLY

MARTIN MARIETTA

DENVER DIVISION

● OBJECTIVE

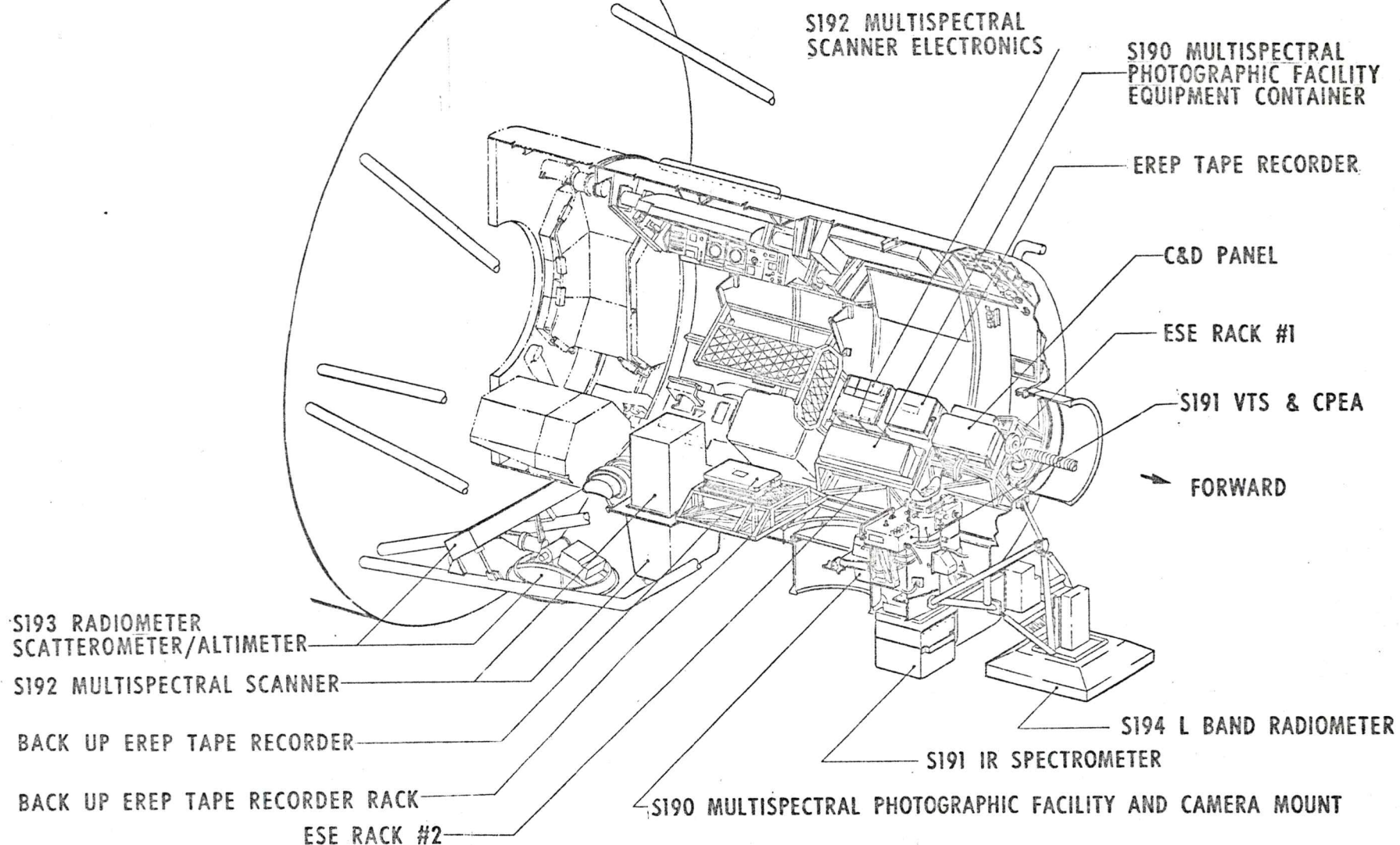
- PROVIDE SIMULTANEOUS EVALUATIONS OF RADAR BACKSCATTERING-CROSS-SECTION AND PASSIVE MICROWAVE EMISSIVITY OF LAND AND SEA
- COMPARE SURFACE BRIGHTNESS TEMPERATURE MEASUREMENTS AT TWO MICROWAVE FREQUENCIES (BY CORRELATION WITH S194 DATA)
- PROVIDE ENGINEERING DATA FOR USE IN DESIGNING OPTIMUM RADAR ALTIMETER FOR SPACE USE

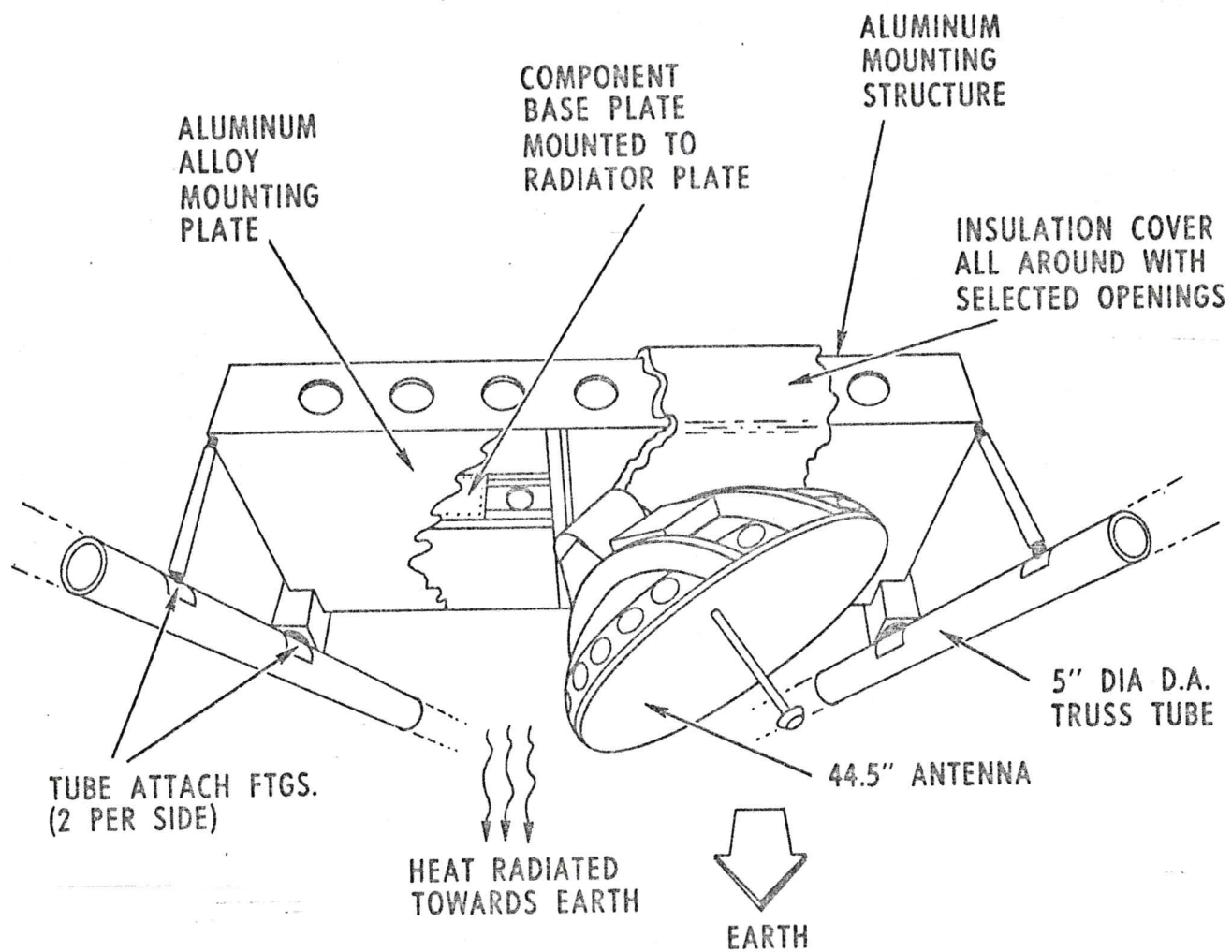
MDA INTERIOR VIEW

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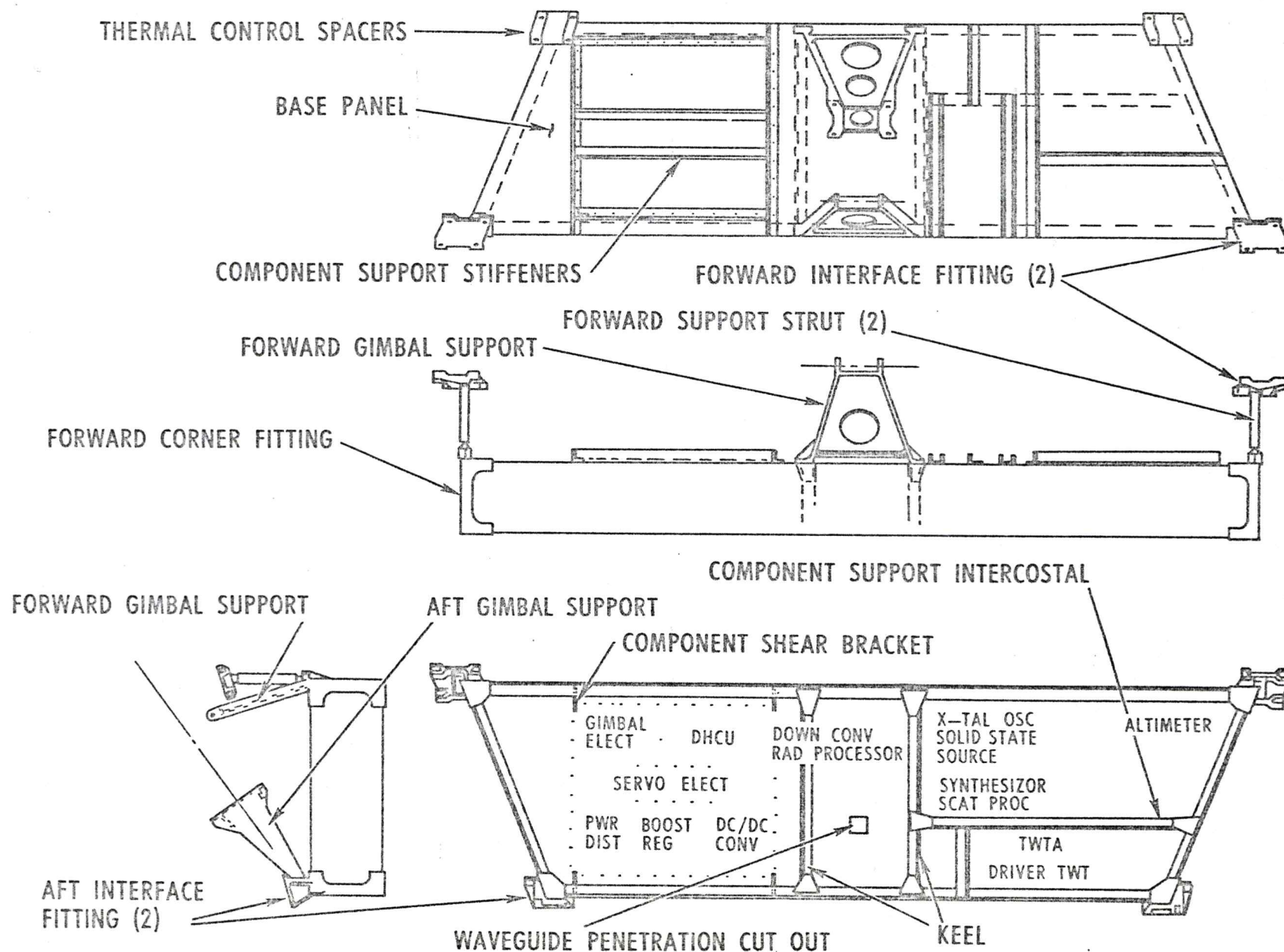


S193 - INTEGRATED MOUNT STRUCTURE

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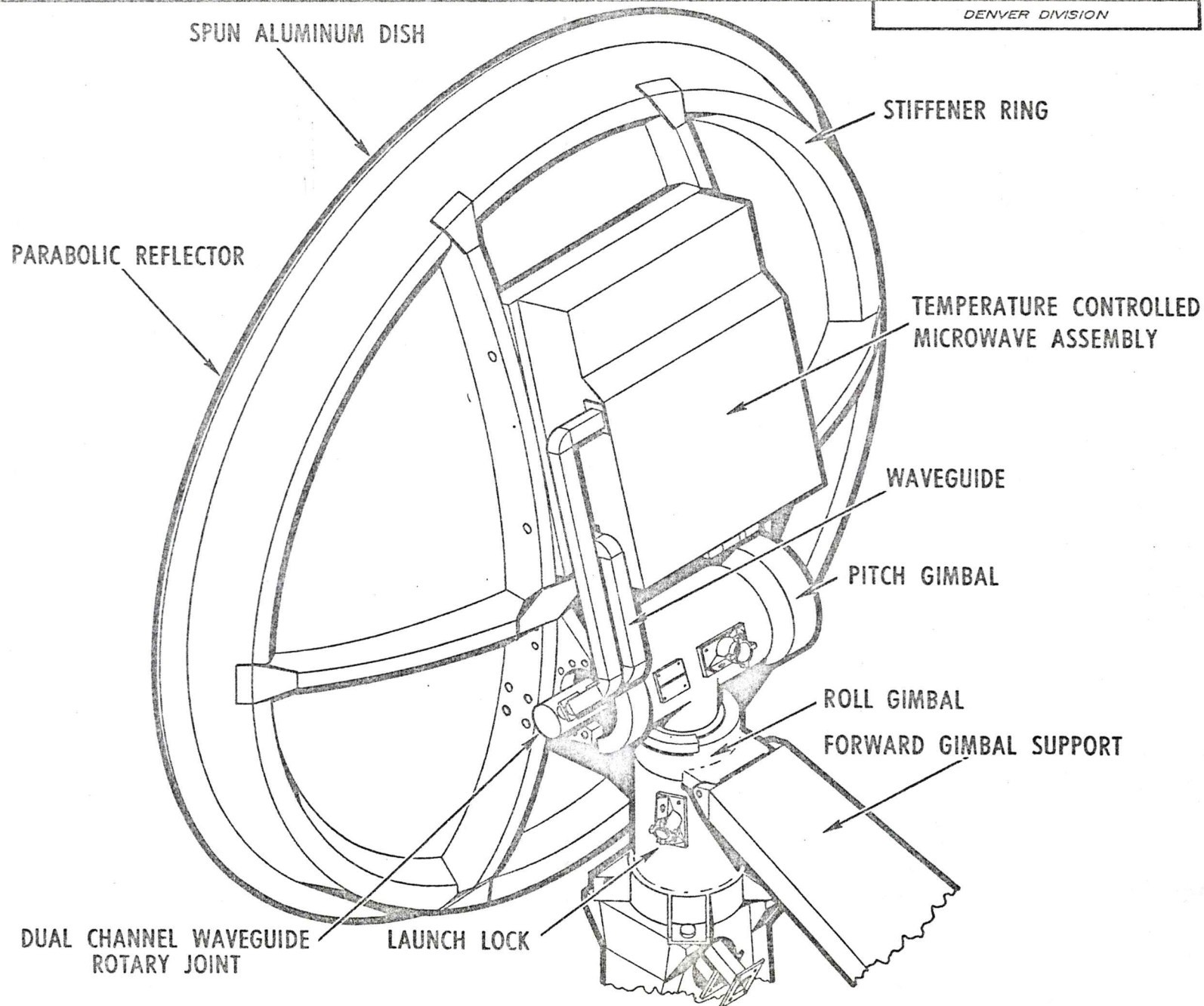
S193 RADIOMETER/SCATTEROMETER/ALTIMETER

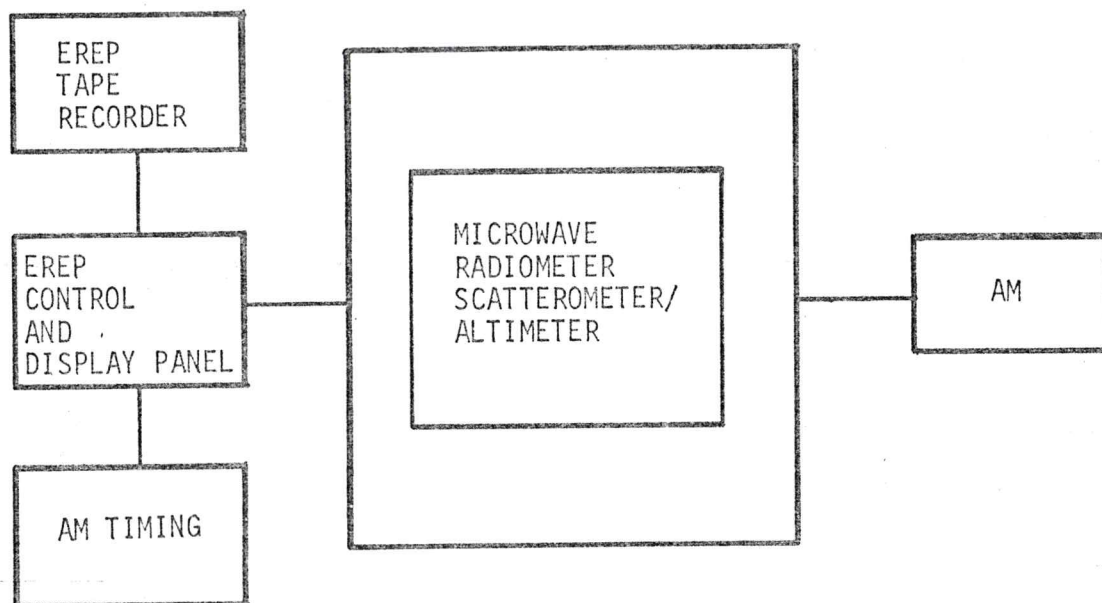
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ANTENNA, REAR VIEW



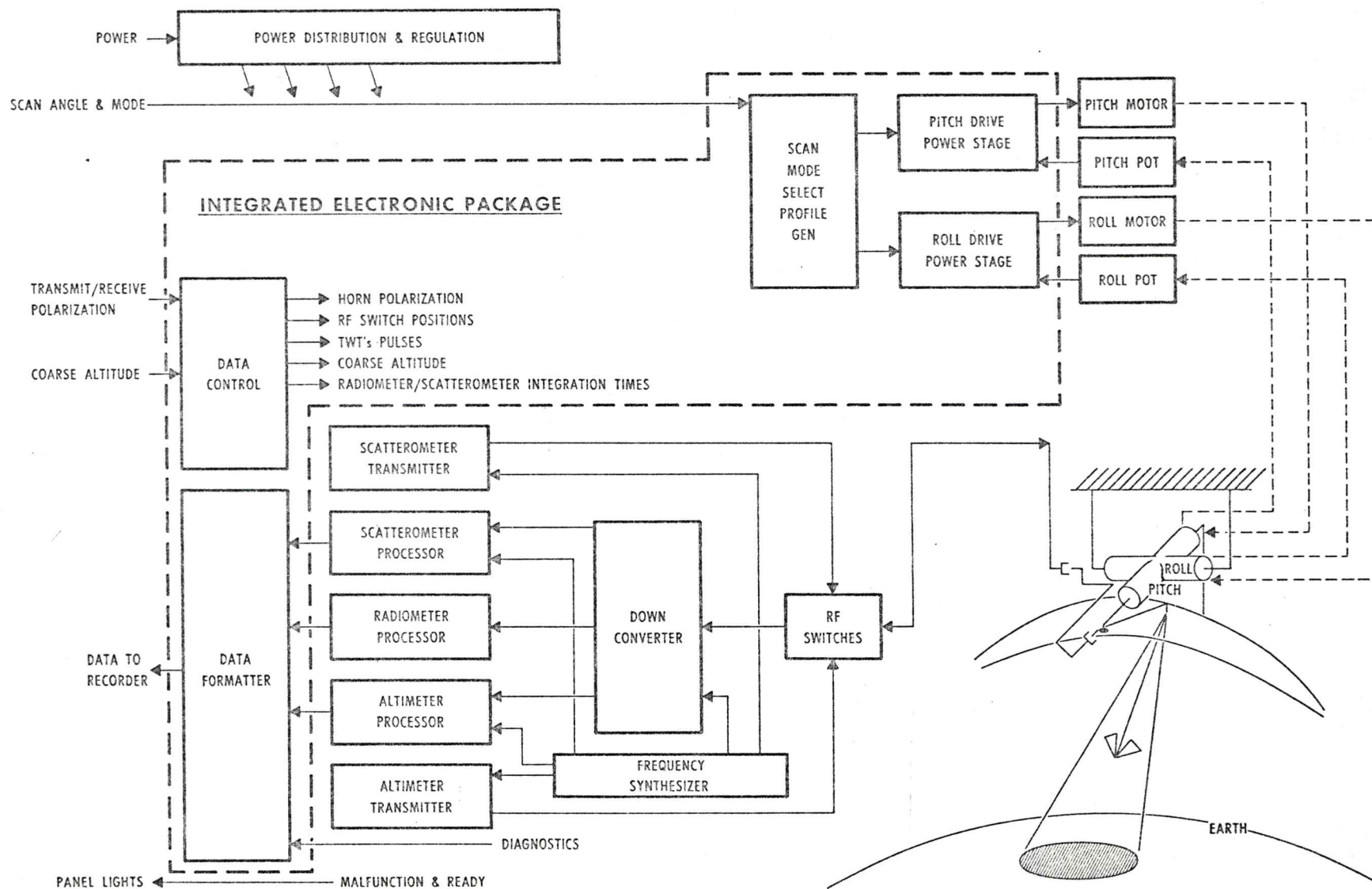


SI93 - SIMPLIFIED FUNCTIONAL BLOCK DIAGRAM

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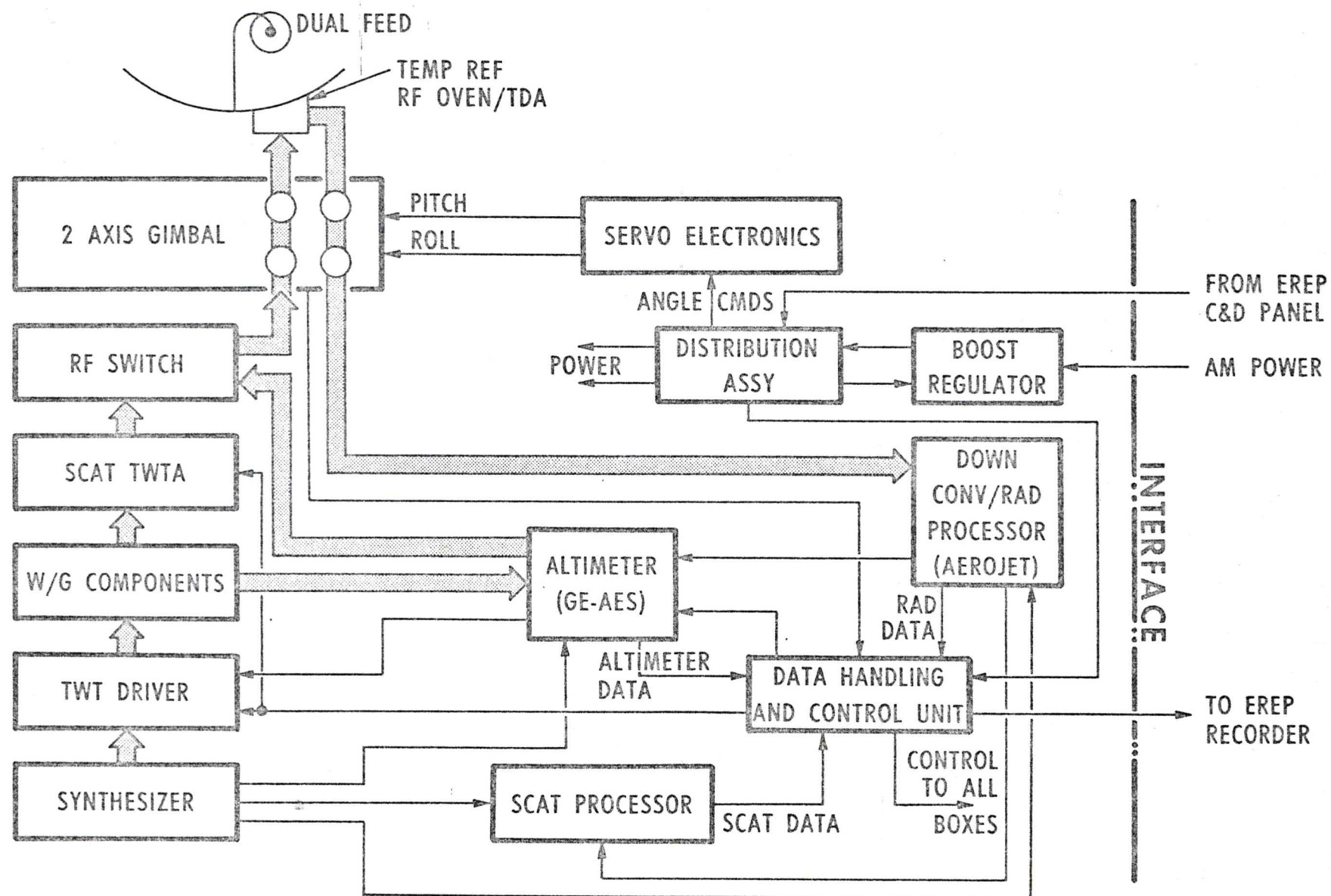


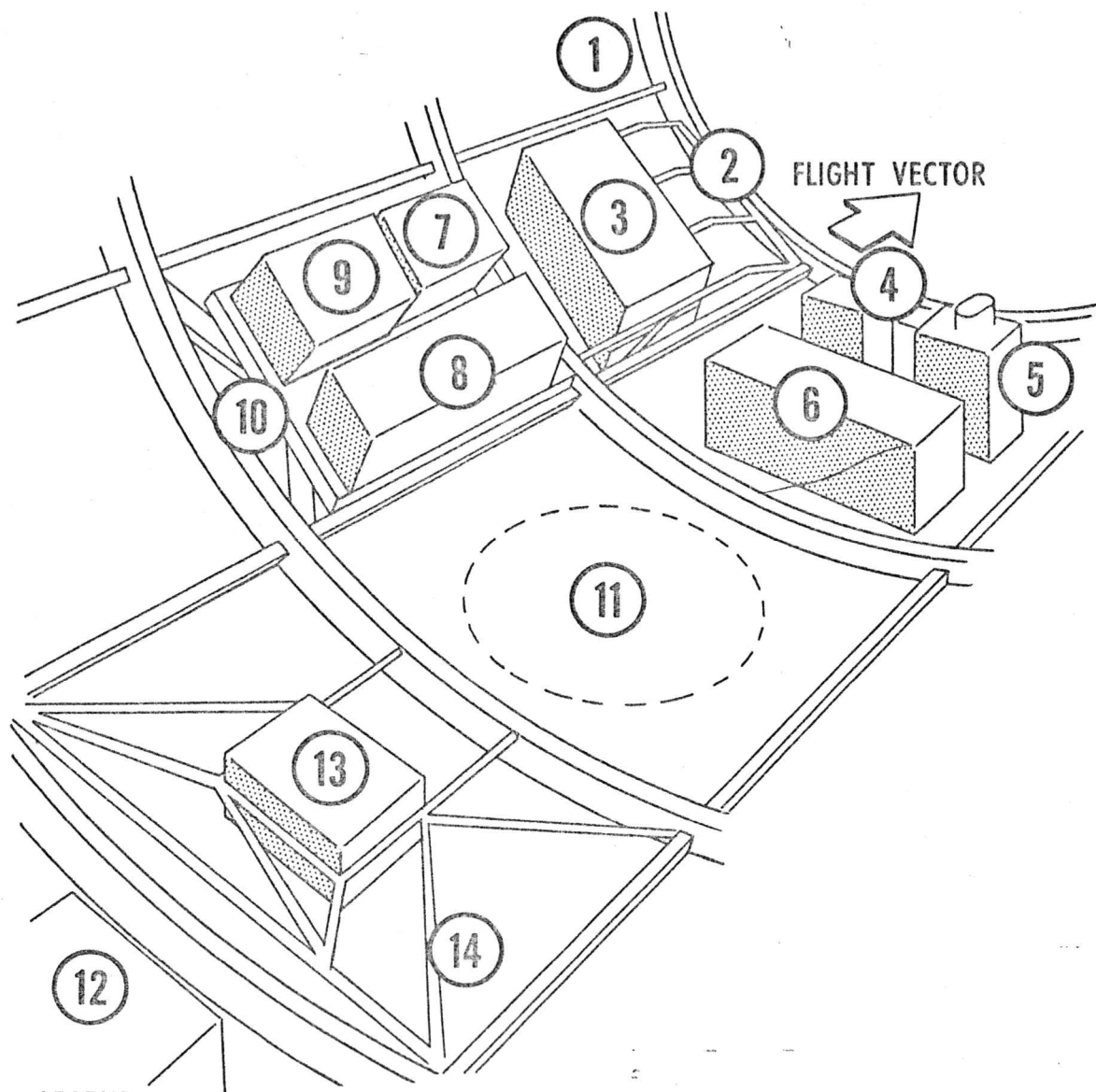
S193 - SYSTEM BLOCK DIAGRAM

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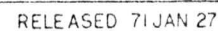




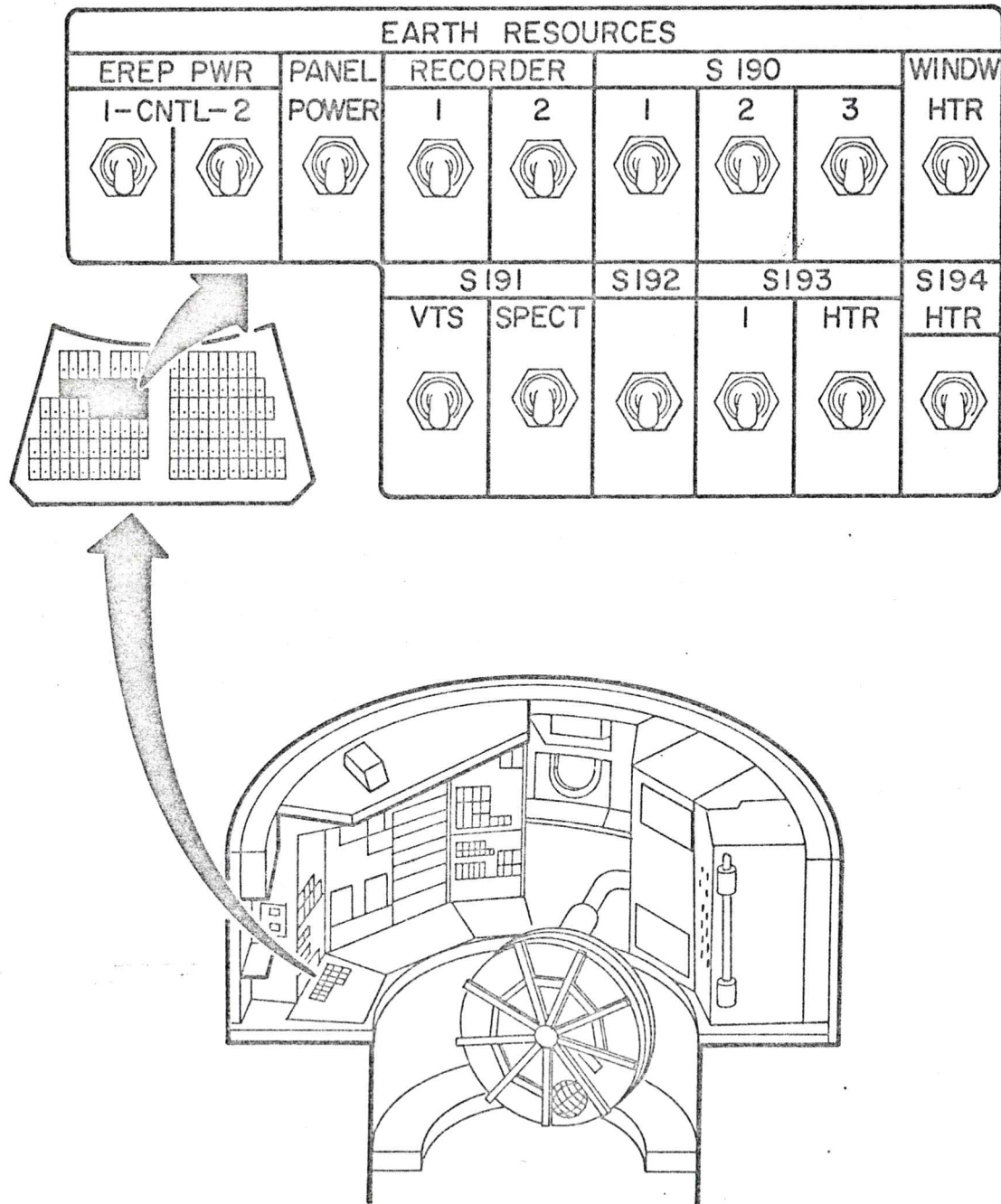
LEGEND:

- | | |
|------------------------------|-------------------------------------|
| 1 FWD FRAME-BARREL-MDA | 8 S190 STOWAGE, TAPE STOWAGE |
| 2 ESE RACK NO. 1 | 9 S192 ELECTRONICS ASSEMBLY |
| 3 C&D PANEL | 10 ESE RACK NO. 2 |
| 4 IR SPECTROMETER ELEC | 11 DOCKING PORT |
| 5 VIEWFINDER/TRACKING SYSTEM | 12 MULTISPECTRAL SCANNER (INTERNAL) |
| 6 S190 | 13 BACKUP TAPE RECORDER |
| 7 TAPE RECORDER | 14 BACKUP TAPE RECORDER SUPPORT |

DENVER DIVISION



AM EREP CIRCUIT BREAKERS

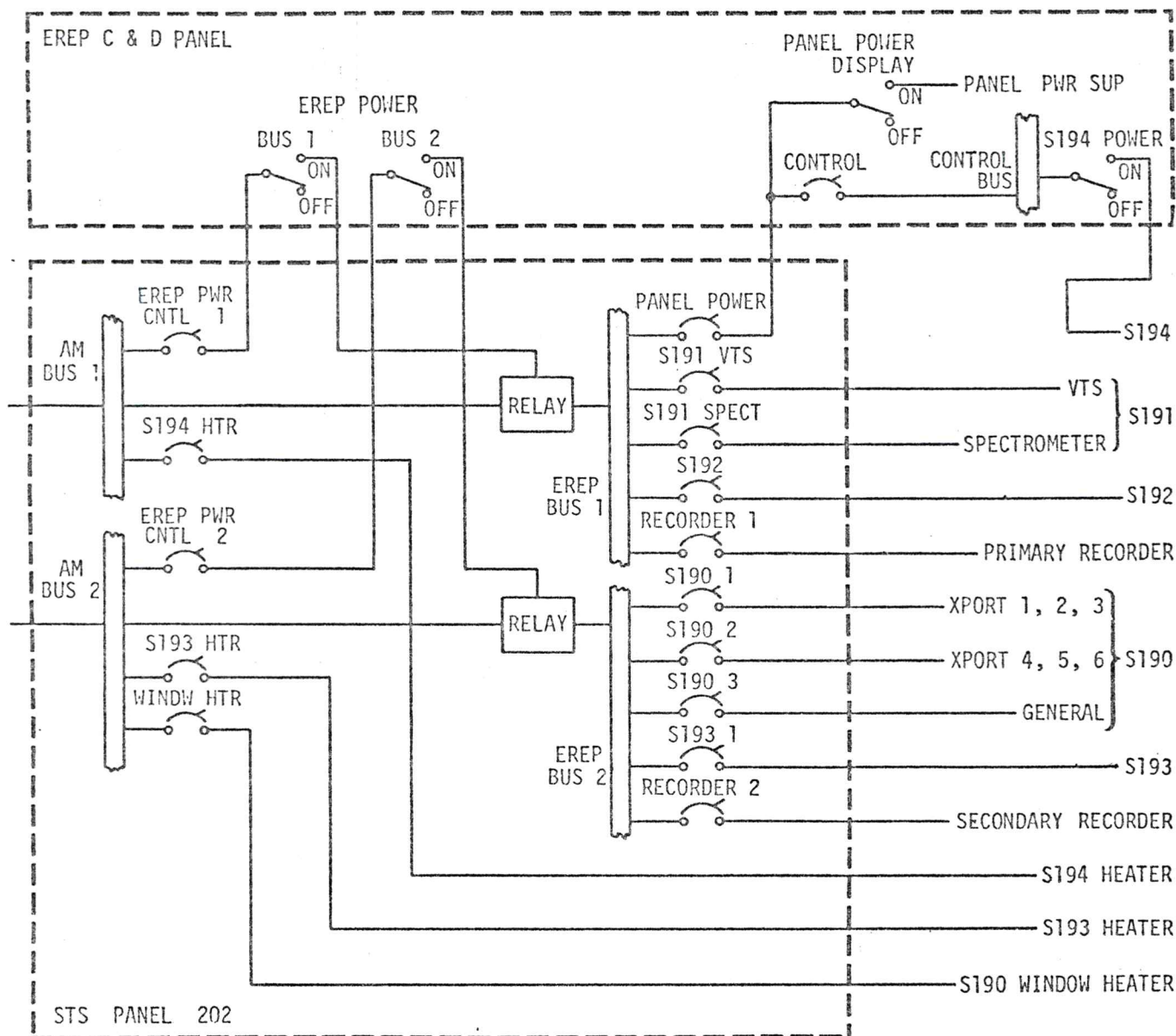


EREP POWER

FOR TRAINING PURPOSES ONLY

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DENVER DIVISION



S193 RADIOMETER/SCATTEROMETER,

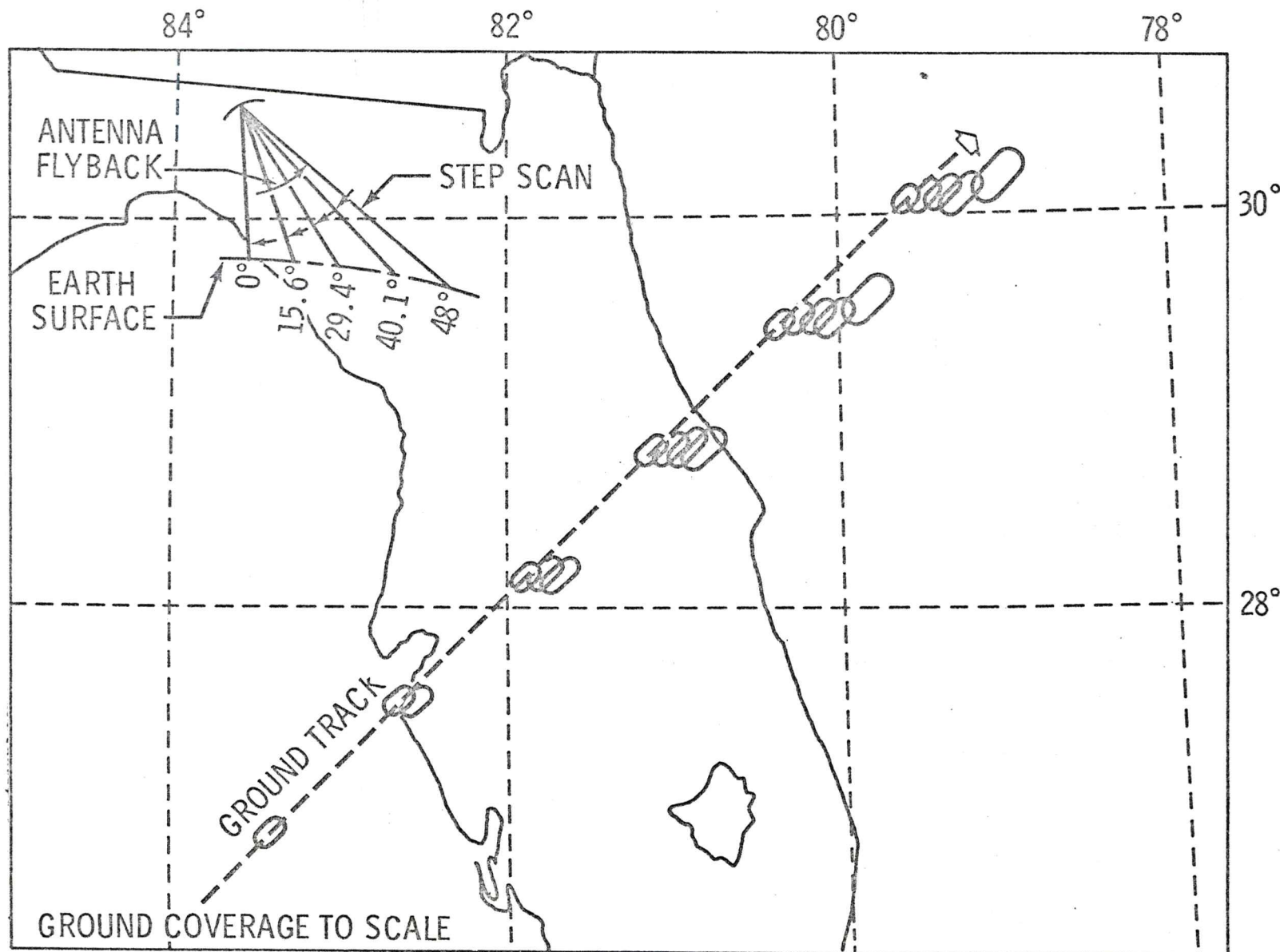
NASA-S-71-12705-V

FOR TRAINING PURPOSES ONLY

MARTIN MARIETTA

DENVER DIVISION

IN-TRACK NON-CONTIGUOUS



S193 RADIOMETER/SCATTEROMETER

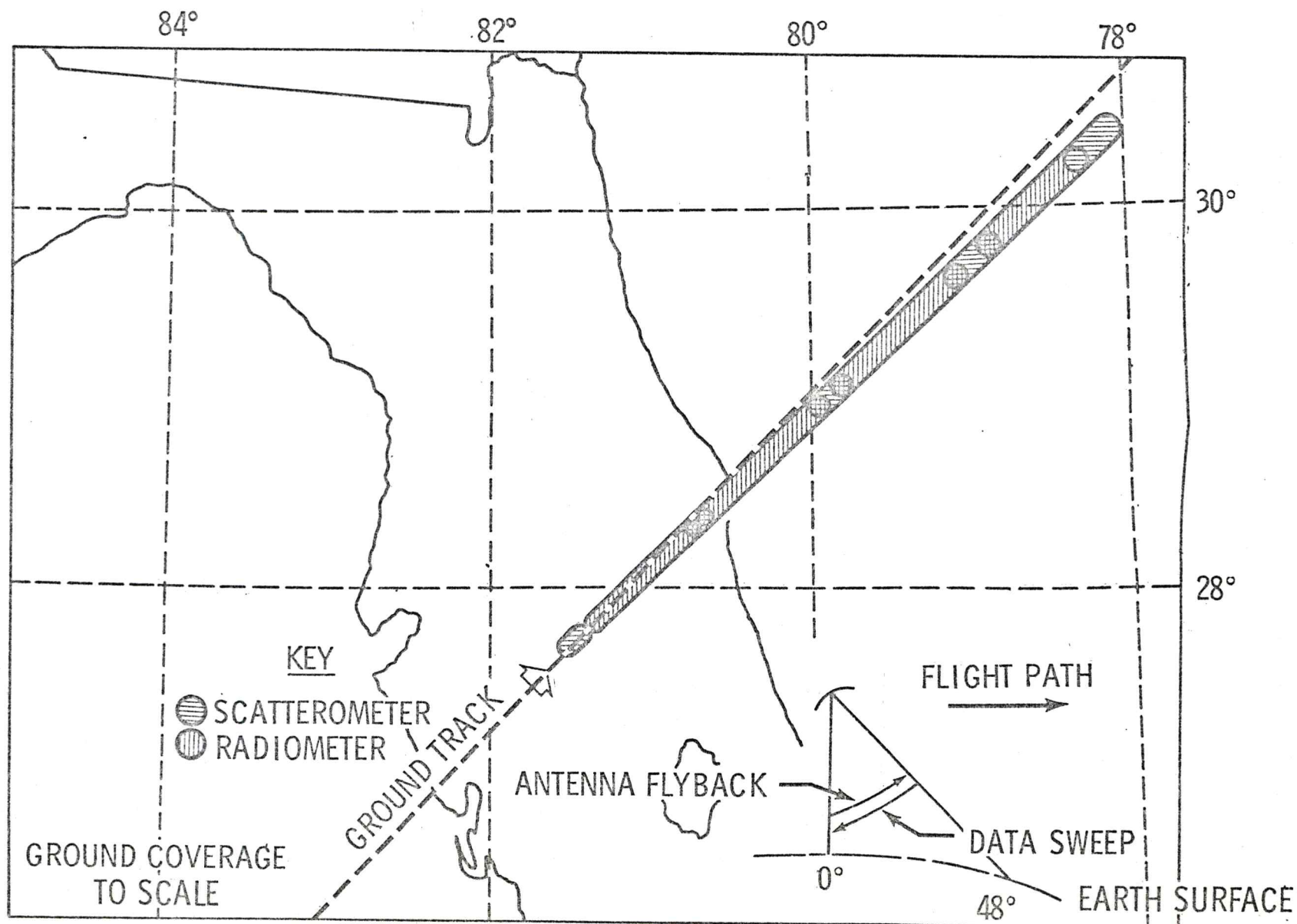
NASA-S-71-12711-V

FOR TRAINING PURPOSES ONLY

MARTIN MARIETTA

DENVER DIVISION

IN-TRACK CONTIGUOUS



S193 RADIOMETER/SCATTEROMETER

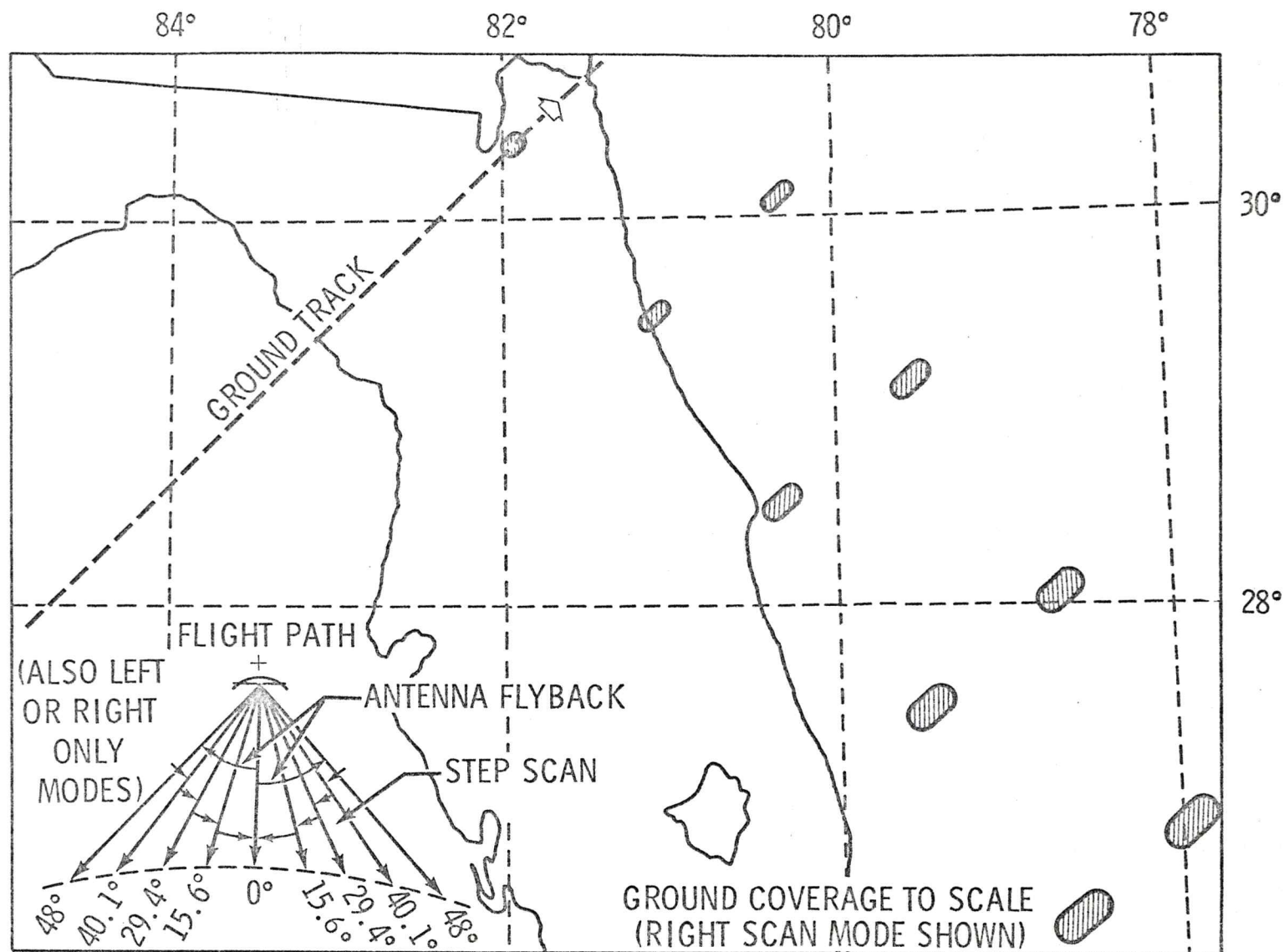
FOR TRAINING PURPOSES ONLY

MARTIN MARIETTA

DENVER DIVISION

NASA-S-71-12733-V

CROSS-TRACK NON-CONTIGUOUS MODE



S-193 RADIOMETER/SCATTEROMETER

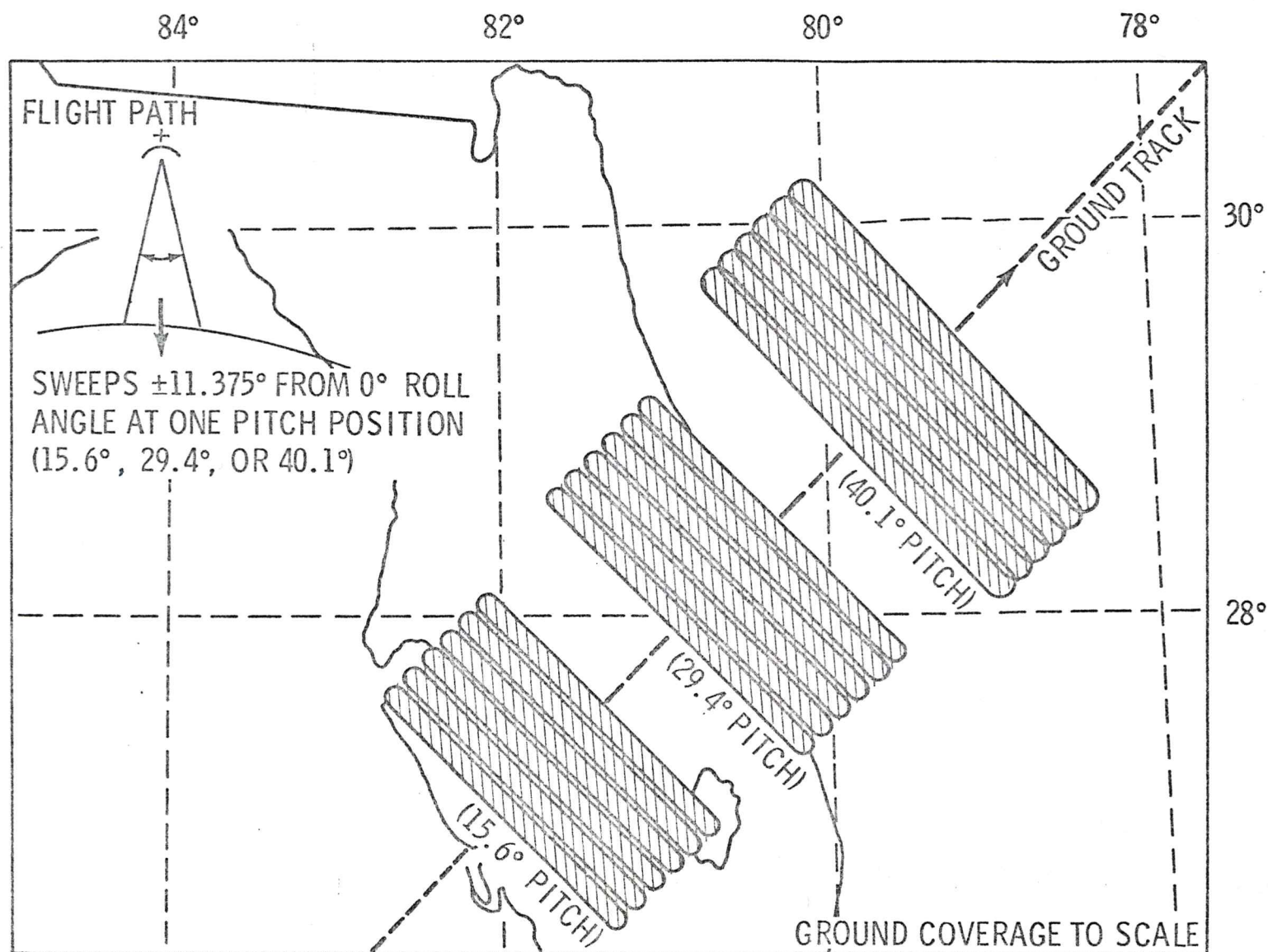
FOR TRAINING PURPOSES ONLY

MARTIN MARIETTA

DENVER DIVISION

NASA-S-71-12713-V

CROSS-TRACK CONTIGUOUS MODE (NON-ZERO ELEVATION ANGLE)



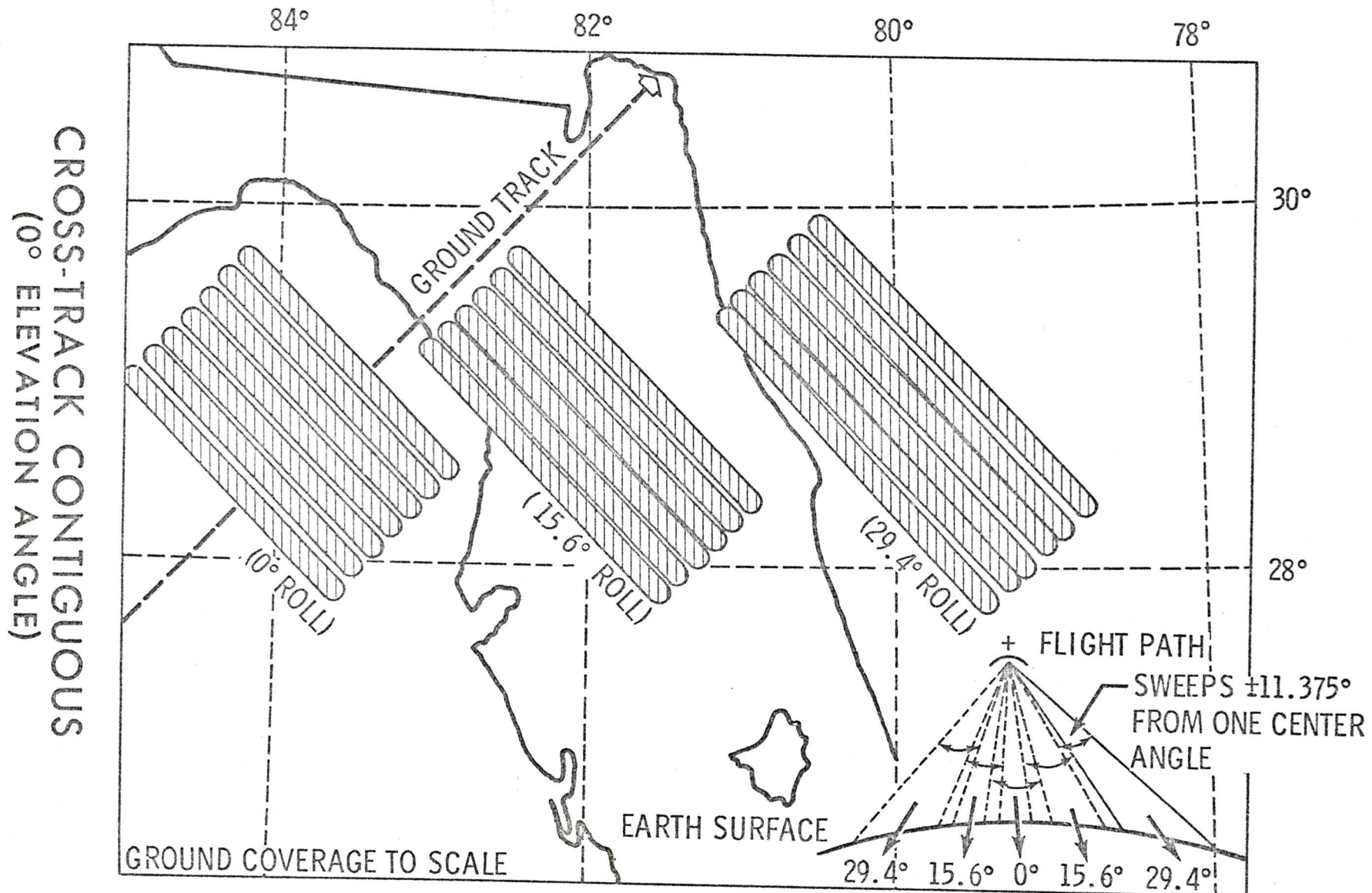
S193 RADIOMETER/SCATTEROMETER,

NASA-S-71-13240-V

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DENVER DIVISION



FREQUENCY MULTIPLEXER

MARTIN MARIETTA

DENVER DIVISION

