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VOLUME III

COPY NO. 4

SPECIAL ACCEPTANCE TEST PERFORMED ON THE

GRUMMAN AIRCRAFT ENGINEERING CORPORATION

MODEL 128-10005-3 NOSE RADOME, SERIAL NO. 4,

FOR THE A2F-1 AIRCRAFT

B.C. REPORT NO. GRU3-4

PREPARED UNDER U.S. NAVY CONTRACT NO. NOa(S)59-0259c

APRIL 19, 1961

MANUFACTURER: BRUNSWICK CORPORATION
MARION, VIRGINIA

ASTIA
AUG 24 1961
TIPDR

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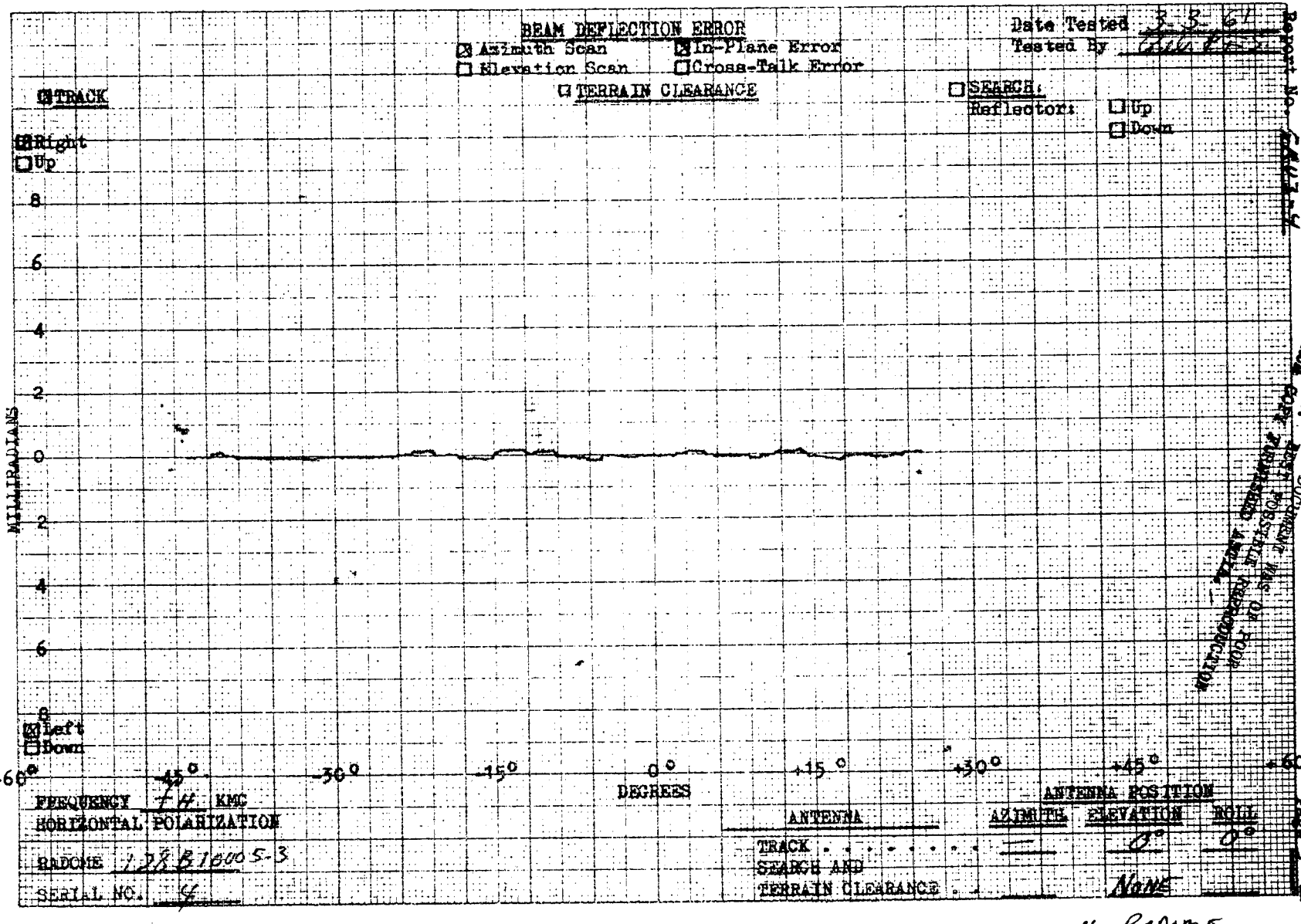
SECTION 29

TRACK BORESIGHT ERROR

F_H @ 0° ROLL



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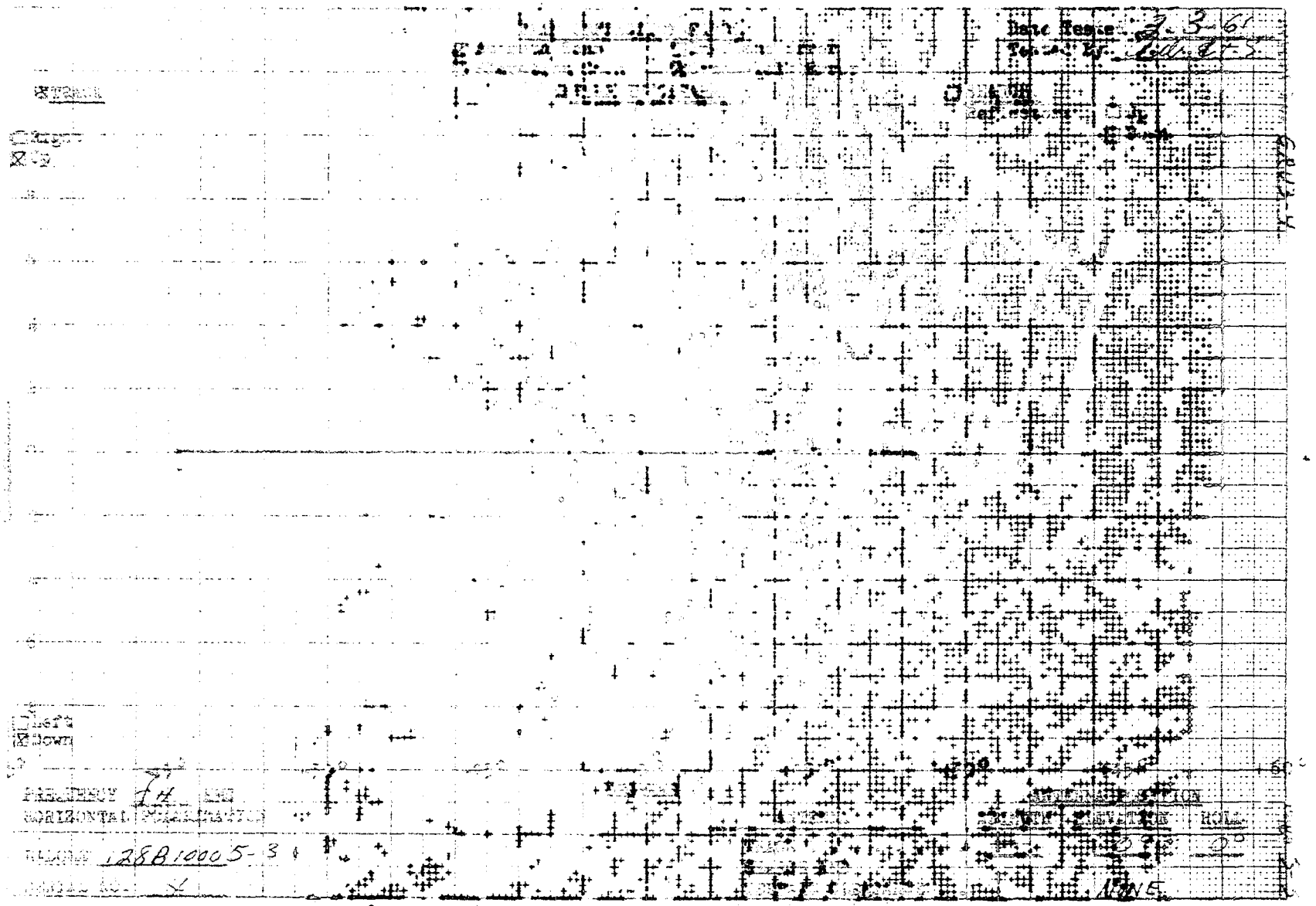
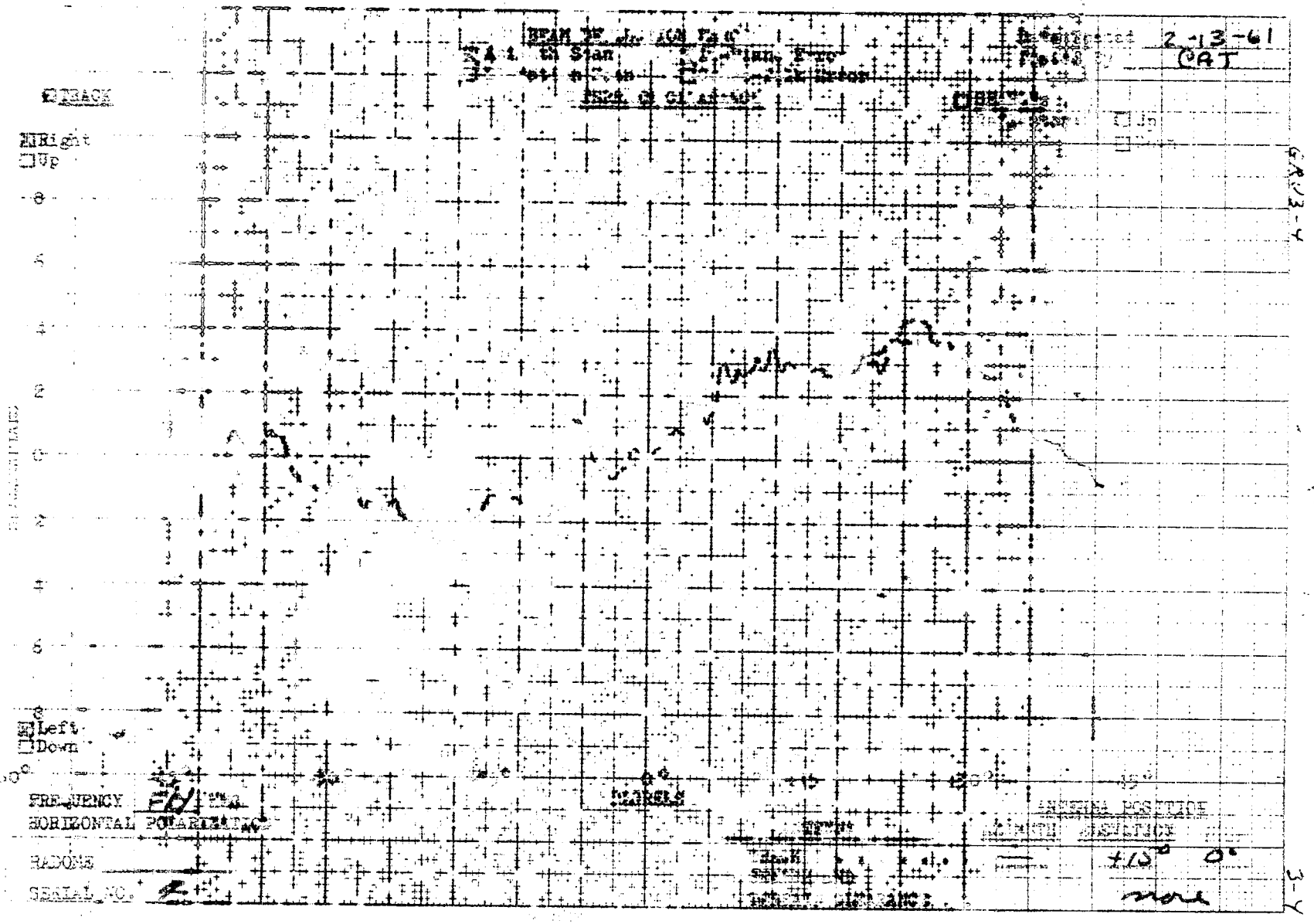
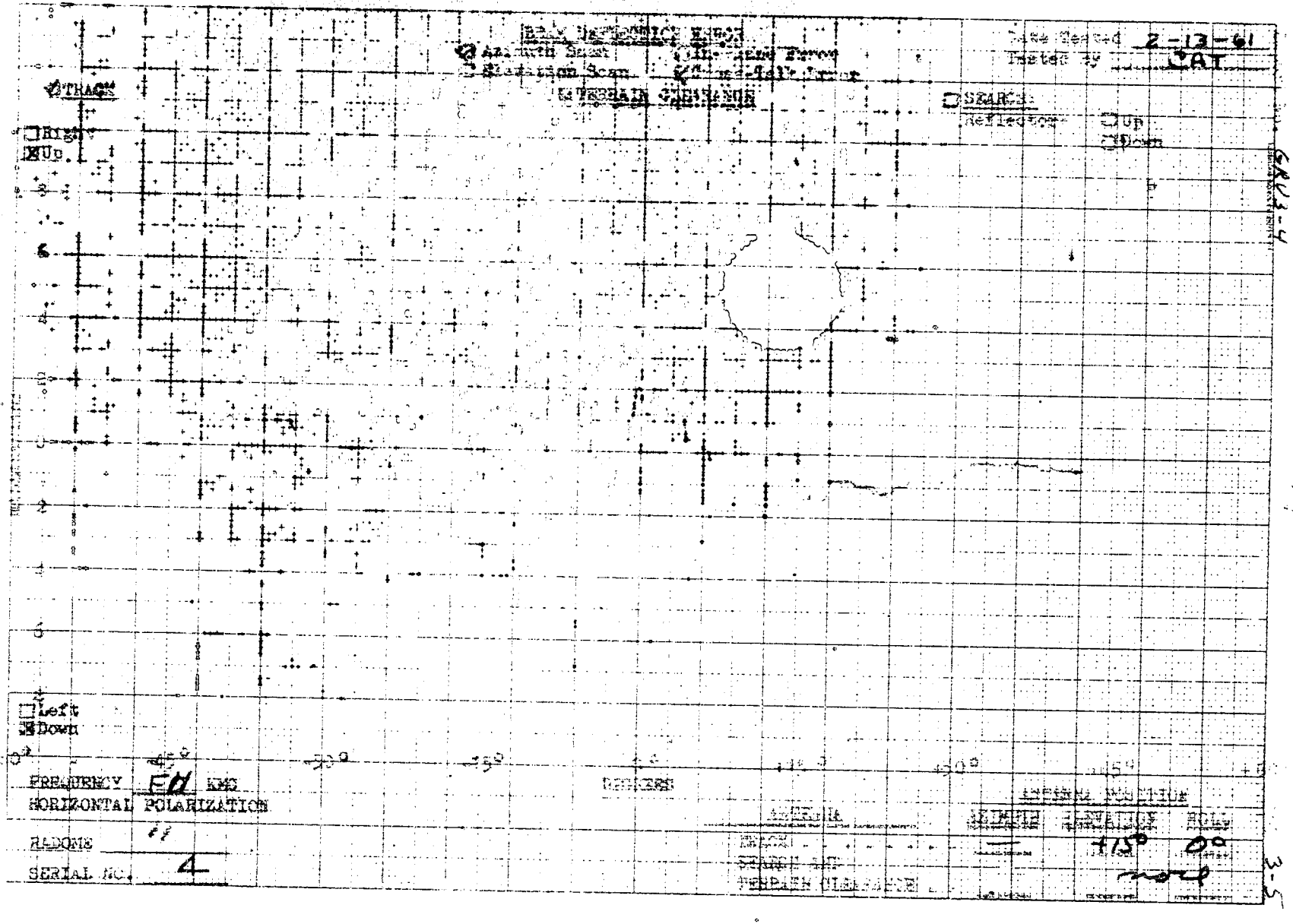
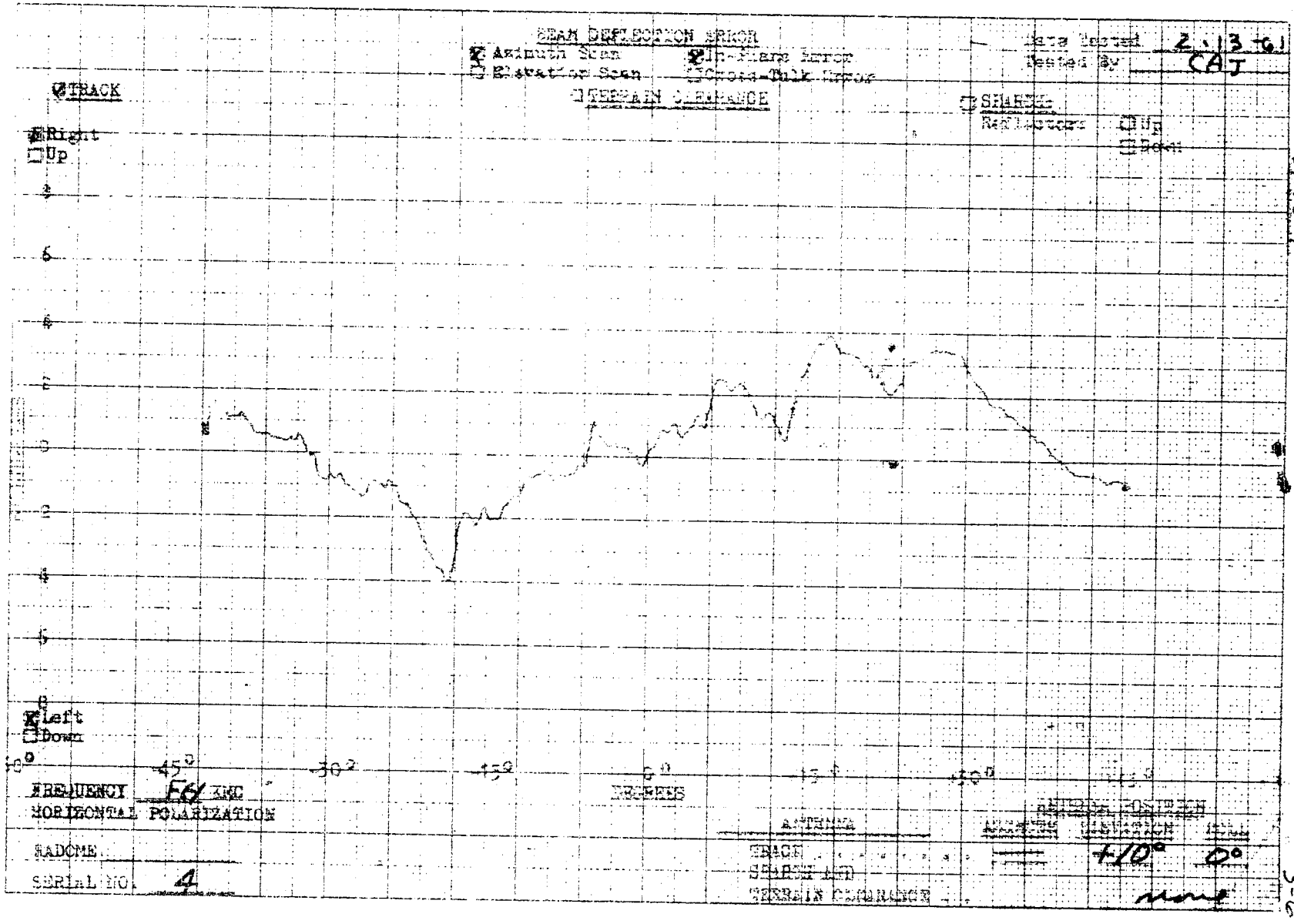
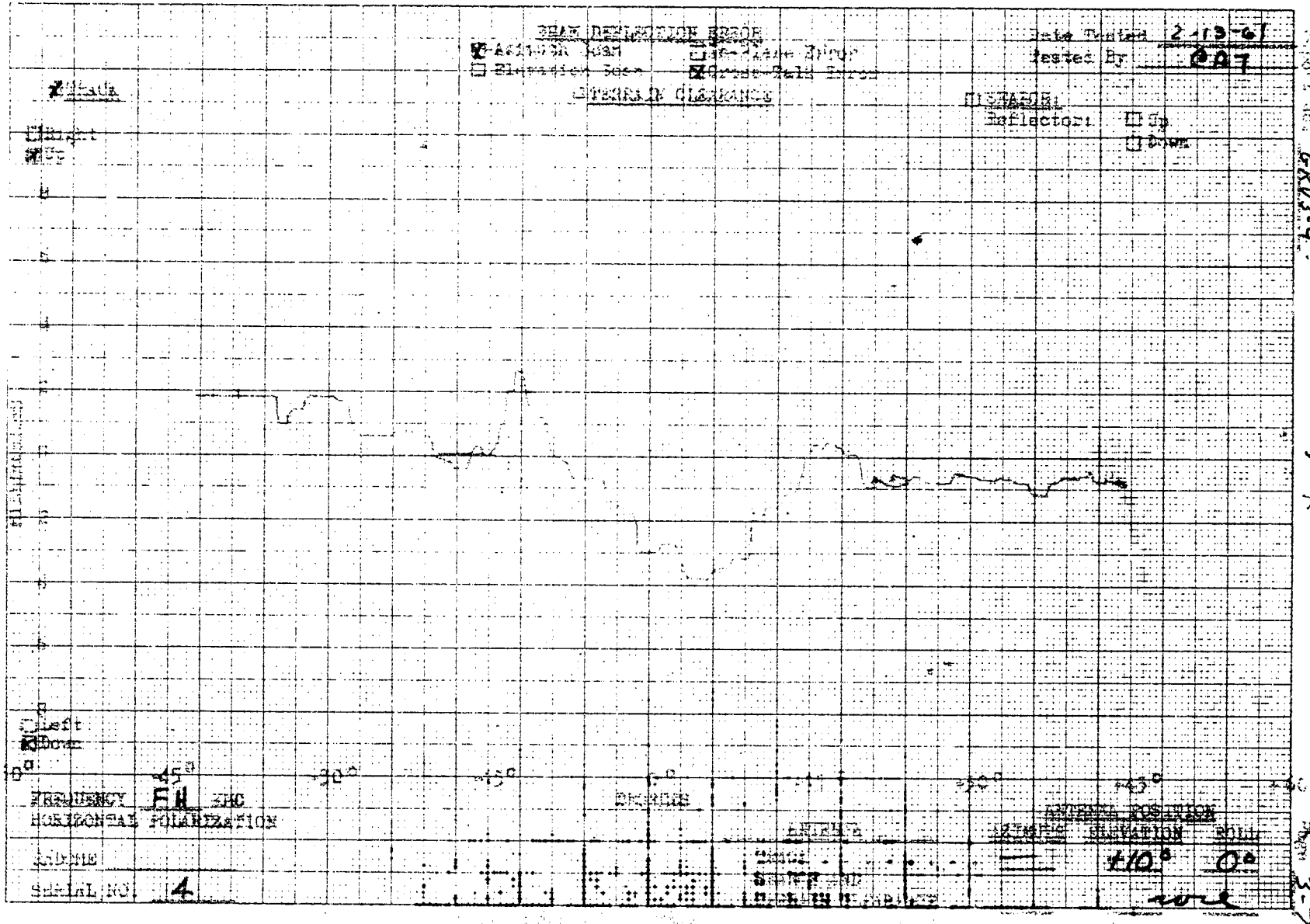
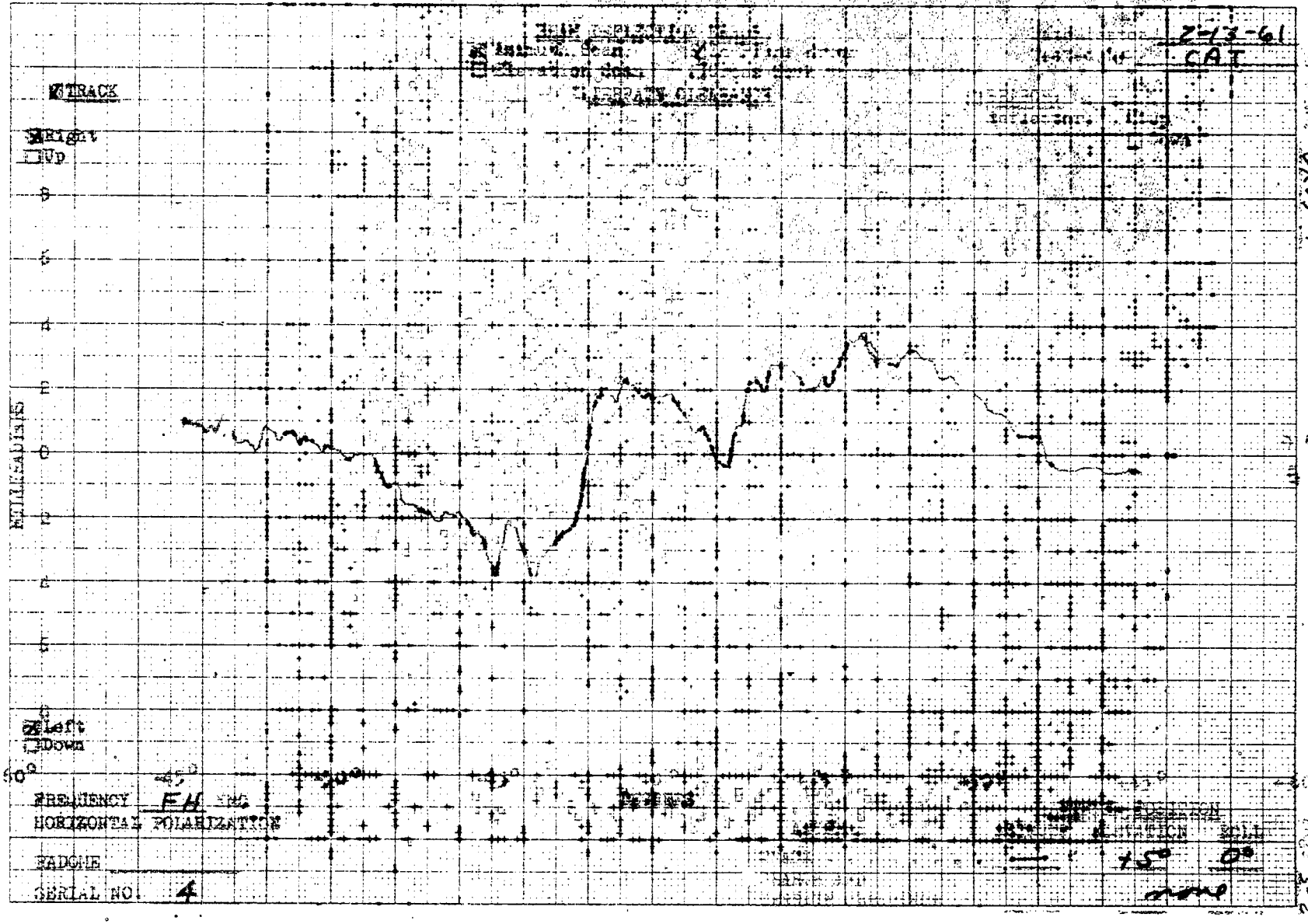

Date Read 2-3-67
To: W. 2W 2F-3
128B10005-3
100 % LEVEL

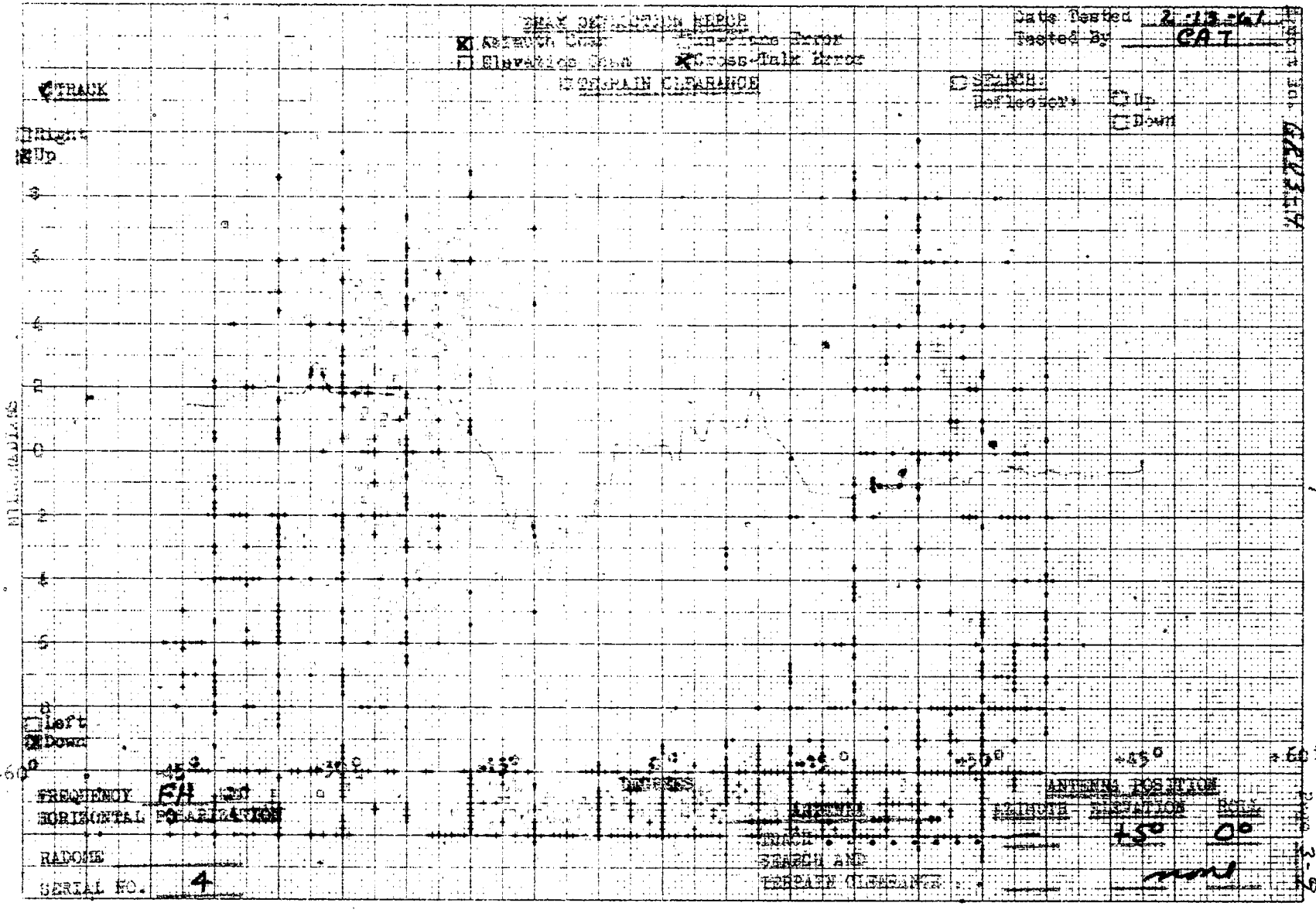

2-13-61
CAT
TRACK
Right
Up
Left
Down
FREQUENCY
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA POSITION
+15° 0°

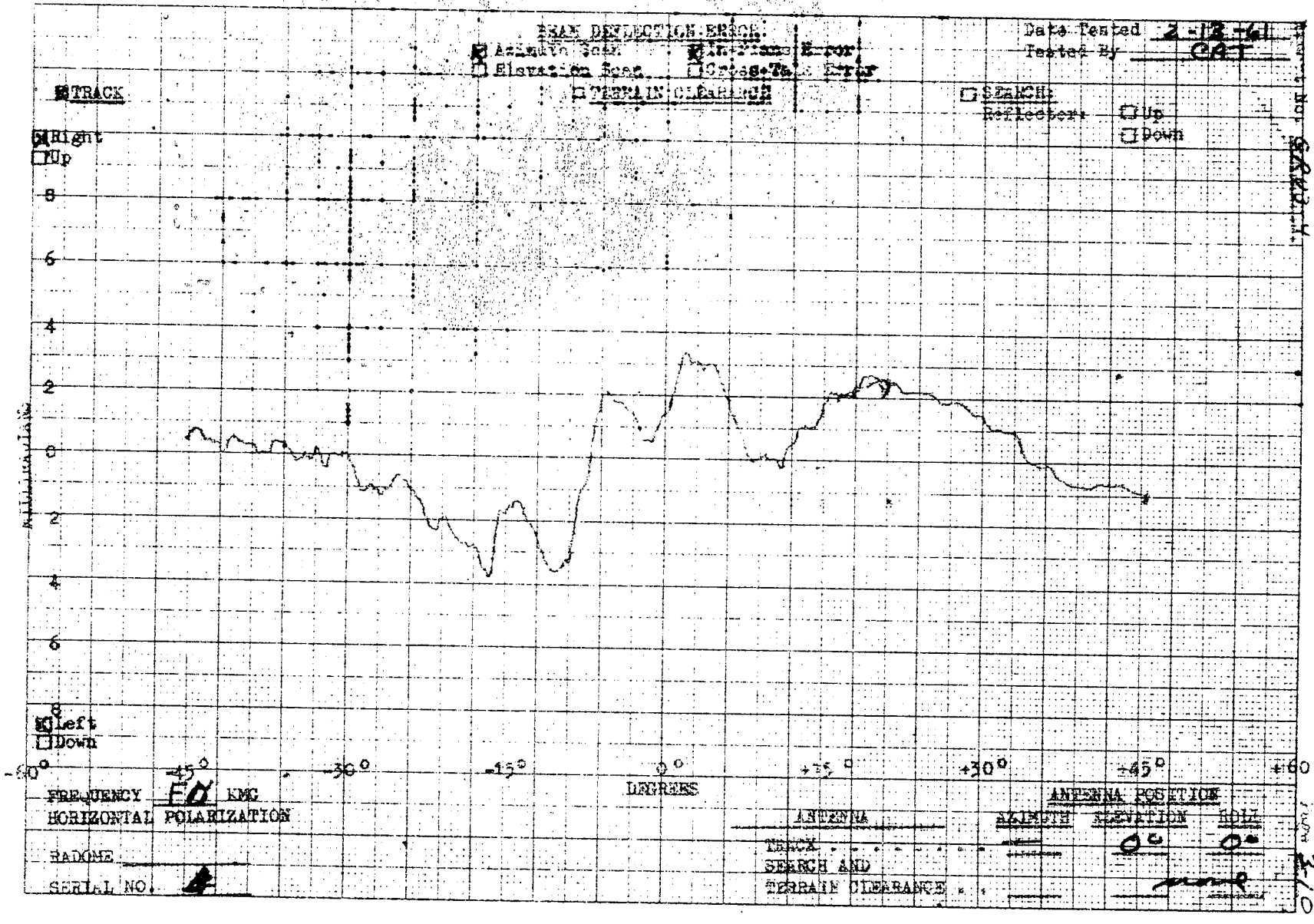

Date Tested 2-13-61
Tested by AT
TRACK
Right
Up
SEARCH
Reflection
Up
Down
Left
Down
FREQUENCY Fd KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
+15°
0°

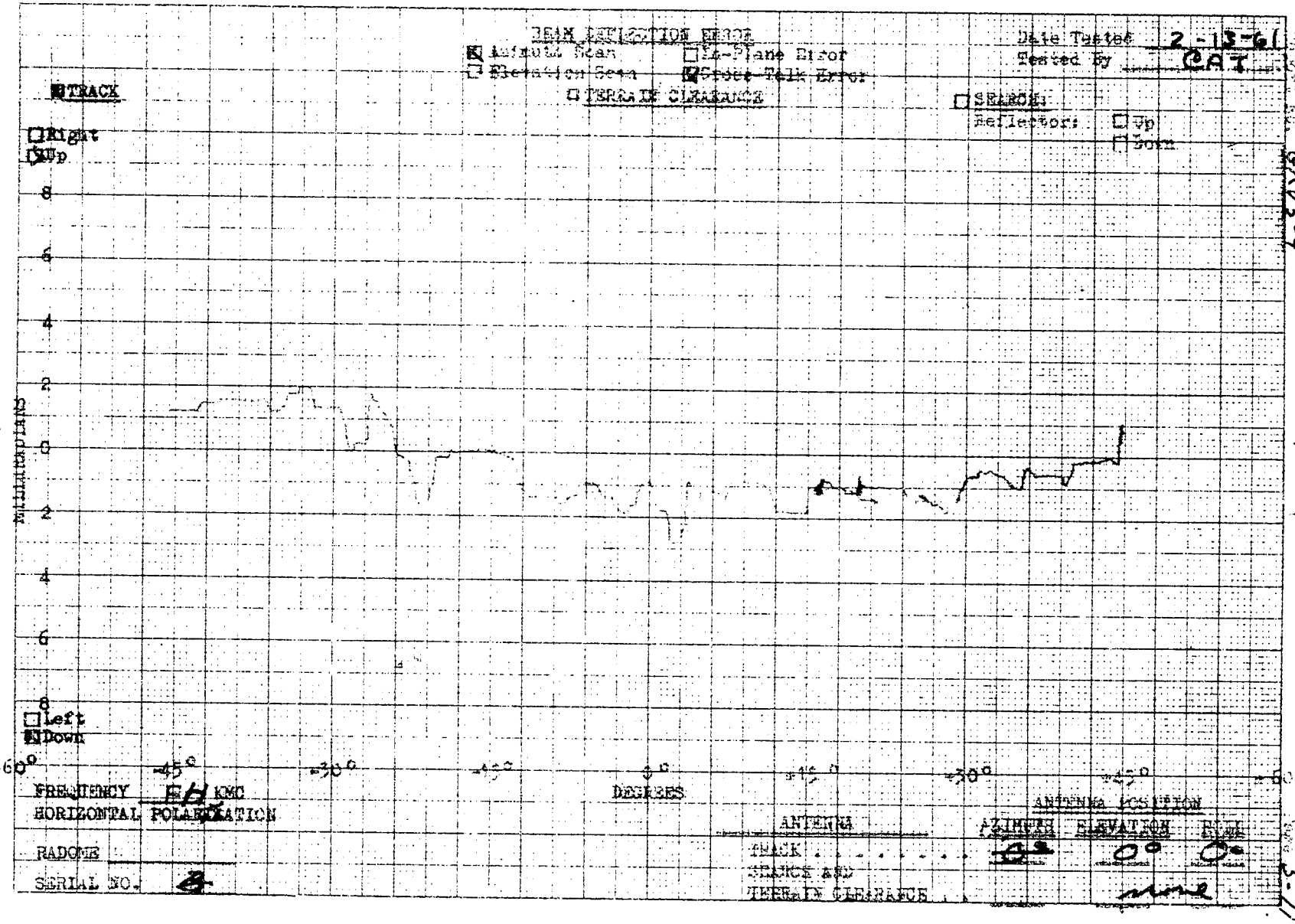

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
TRACK
Right
Up
Left
Down
TERRAIN CLEARANCE
Cross-Talk Error
SHAPED
Date Tested 2.13.61
Tested By CAJ
6AU3-4
3-6
45°
30°
15°
0°
DEGREES
FREQUENCY F6 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SEARCH
TERRAIN CLEARANCE
+10°
0°
none

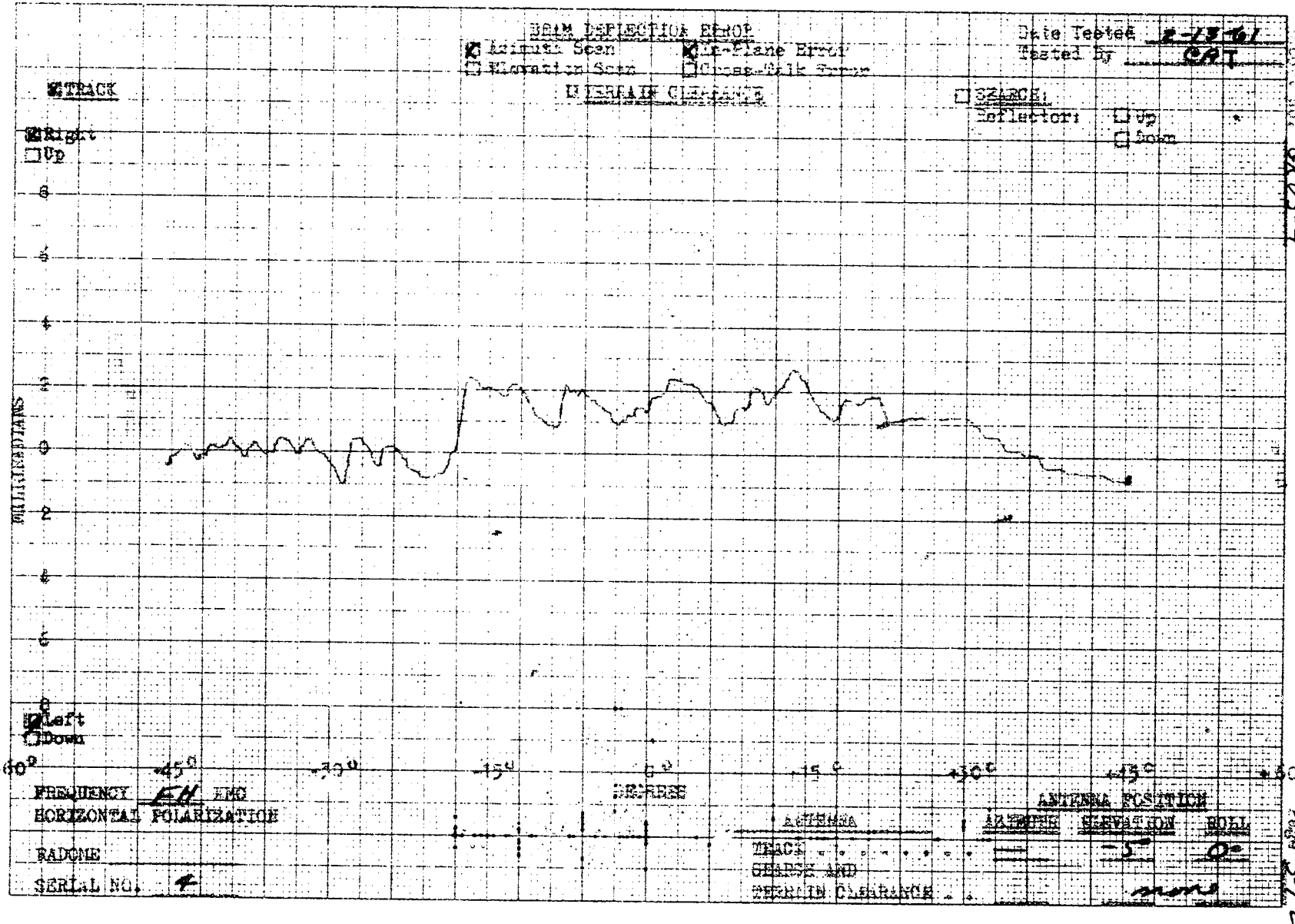

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Phase Error
Cross-Field Error
Date Tested 2-13-67
Tested By
Beta
Left
Down
Deflector:
Left
Down
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
SERIAL NO 4
±10°
0°


2-13-61
CAT
TRACK
Right
Up
DECIBELS
Left
Down
-90°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
FADGE
SERIAL NO. 4
+45°
0°


TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
+15°
+30°
+45°
+60°
FREQUENCY
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
ELEVATION
+30°
00
Date Tested 2-13-64
Tested By CAT
Down
3-9


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Cross-Tk Error
TERRAIN CLEARANCE
Data Tested 2-12-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY E0 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
0°


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
E-Plane Error
Beam Talk Error
TERRAIN CLEARANCE
Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Amplitude
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
DEGREES
FREQUENCY 5671 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
0°
none
GRU3-4
3-11


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
Date Tested 2-15-61
Tested By CRT
TRACK
TERRAIN CLEARANCE
SEARCH
Deflection: Up Down
Right
Up
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 4H MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
-5° 0°
none
Page 3-12

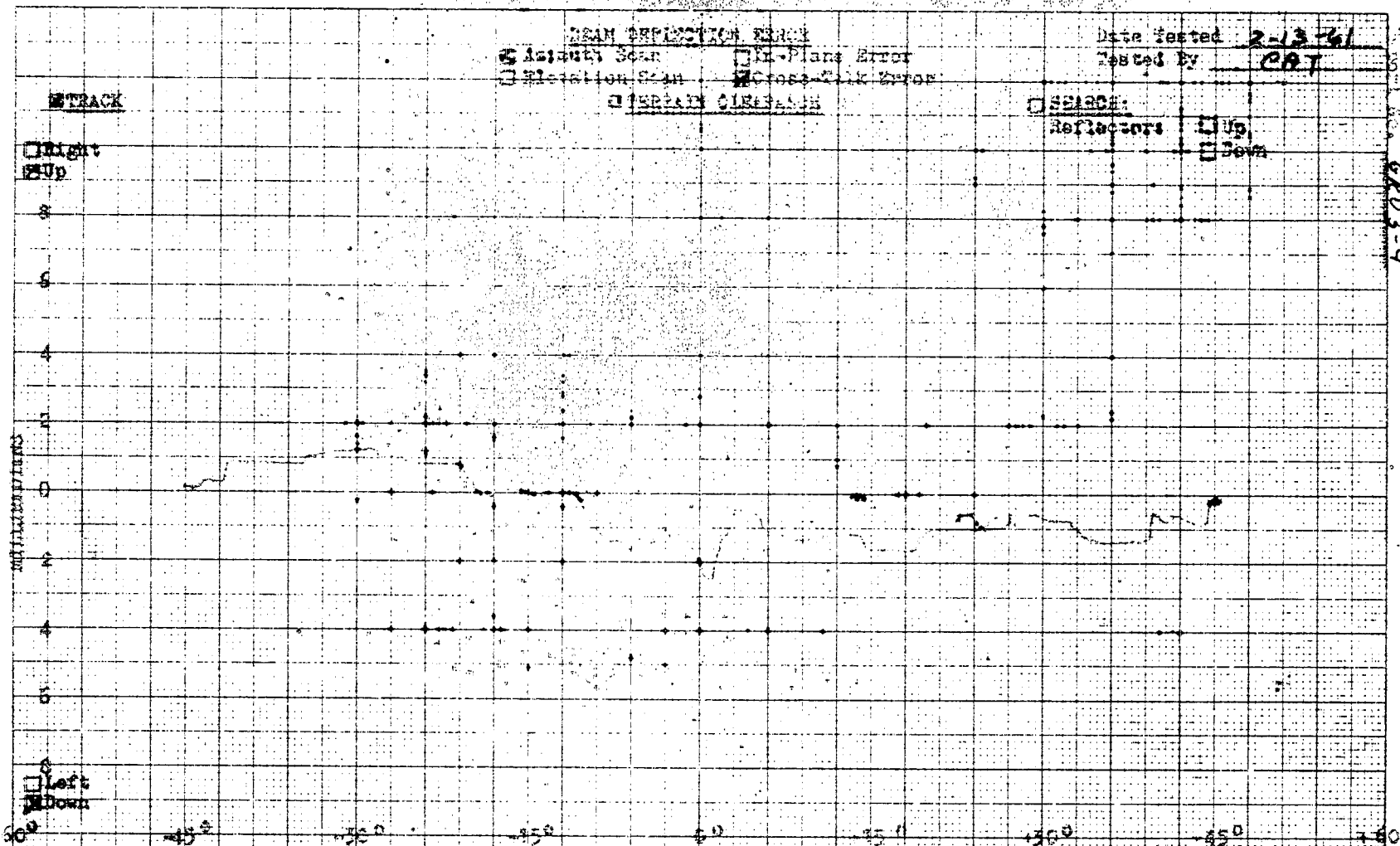
BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ In-Plane Error
☐ Elevation Scan ☒ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-13-61
Tested By CRT

☒ TRACK
☐ Right
☒ Up

☐ SEARCH:
Reflectors: ☐ Up ☐ Down



☐ Left
☒ Down

FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION

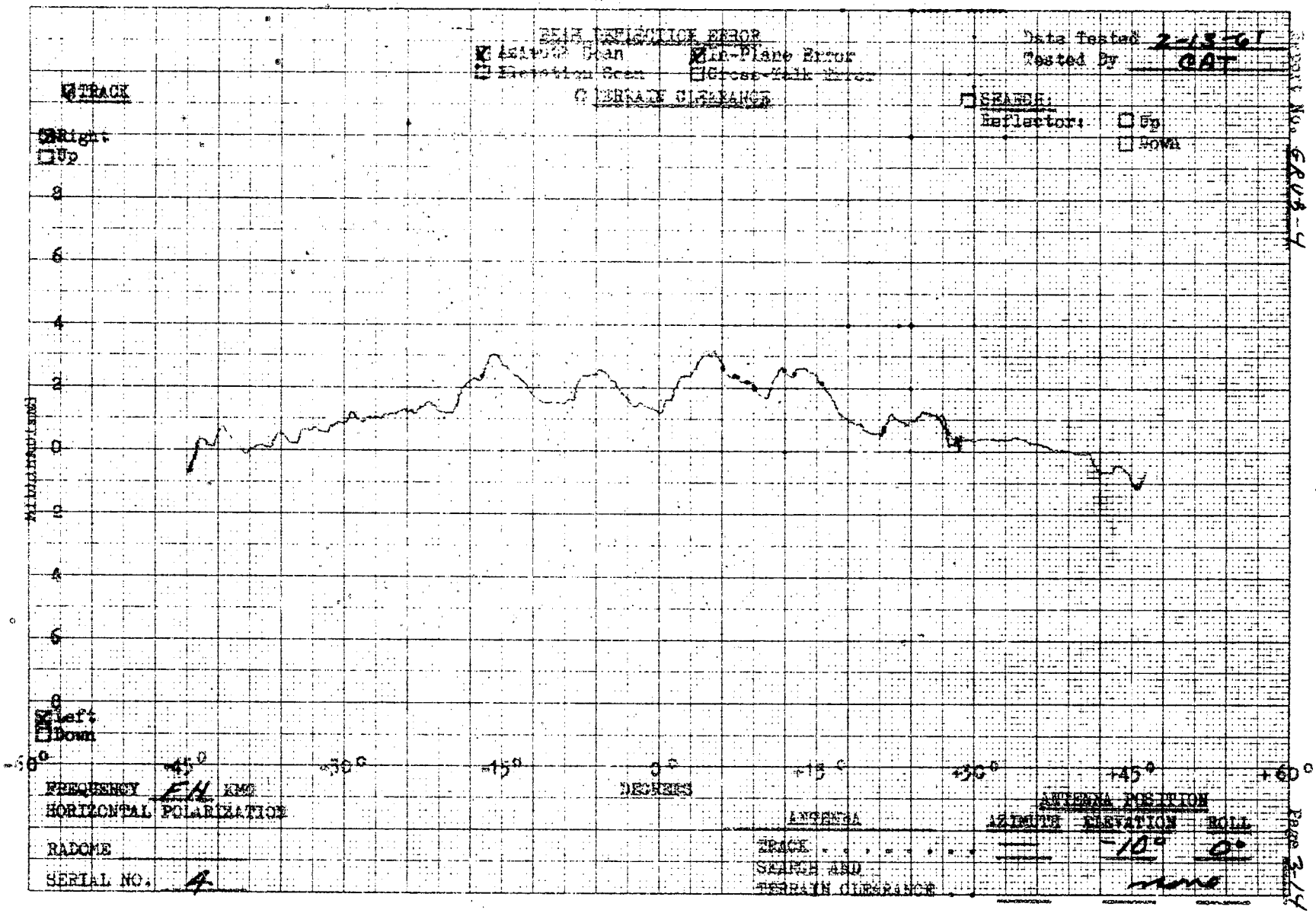
RADOME
SERIAL NO. 4

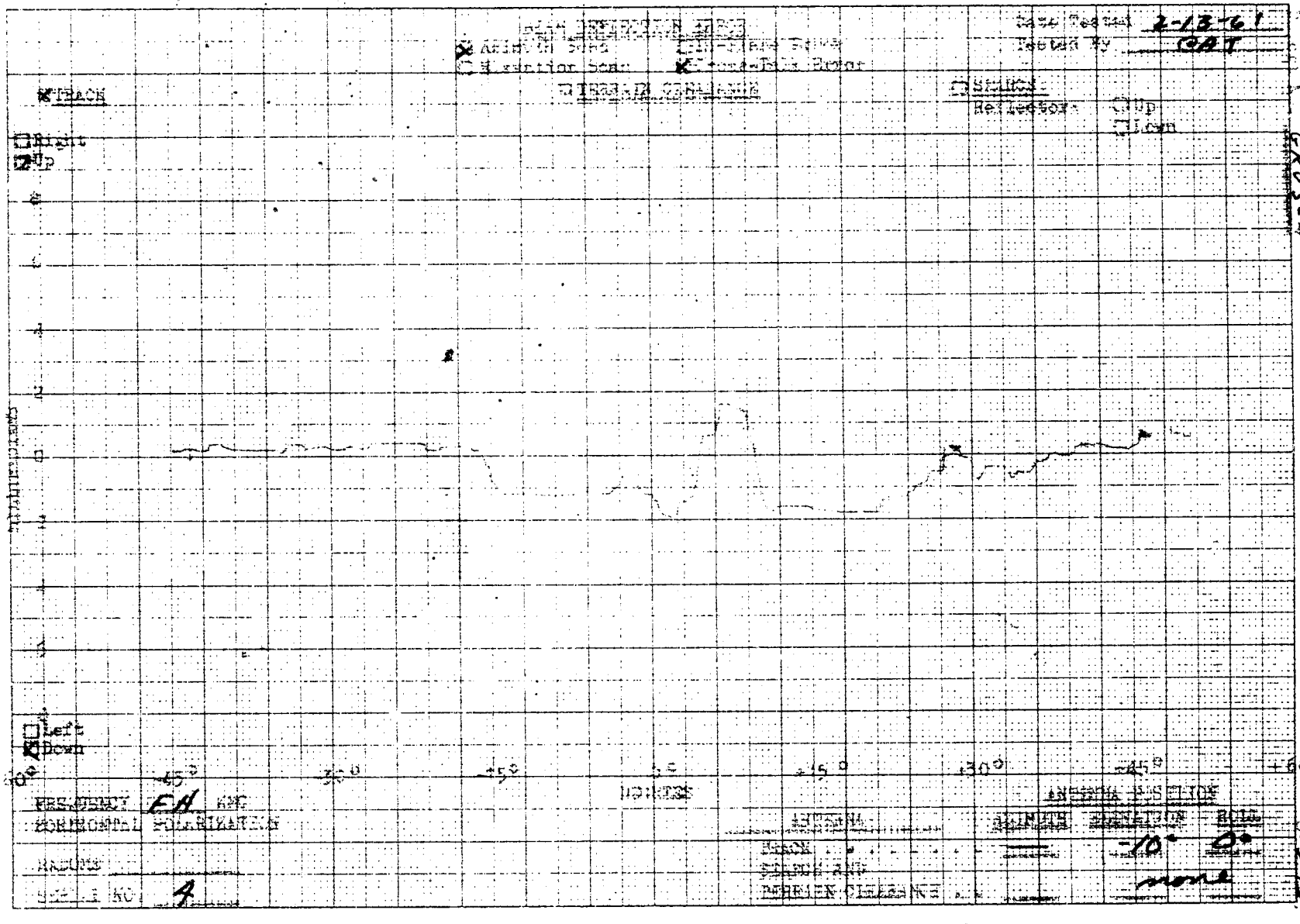
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-32	0°
SEARCH AND TERRAIN CLEARANCE			

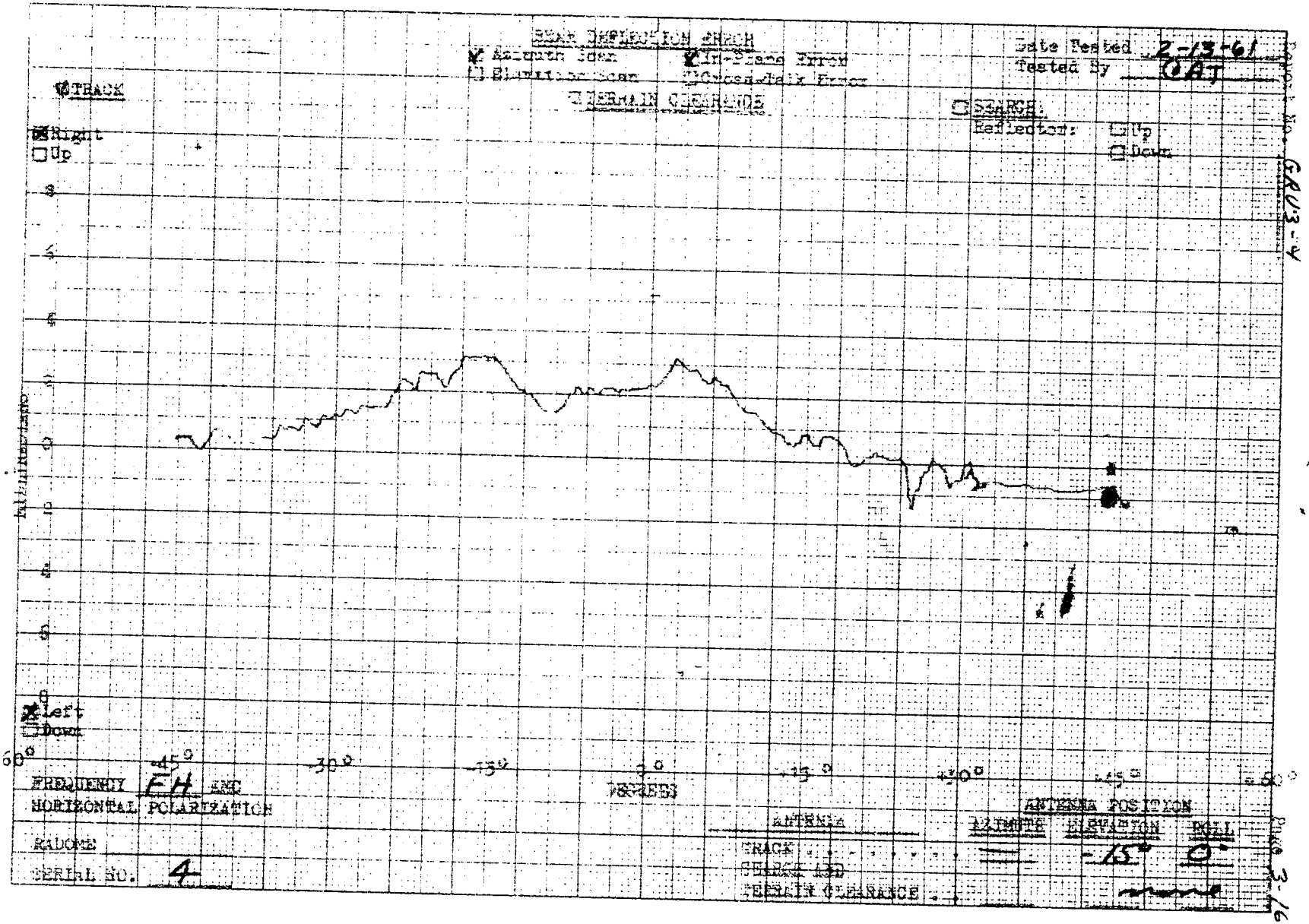
GPU3-4

Page 3-13


ERROR DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Air-Plane Error
Ground-Talk Error
TERRAIN CLEARANCE
Data Tested 2-15-61
Tested By CAT
TRACK
SEARCH
Reflector: Up
Nova
Right
Up
Left
Down
MILLIAMPERES
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK —— -10° 0°
SEARCH AND TERRAIN CLEARANCE —— none
Page 3 of 4


Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
SIGNAL
Reflector
Up
Down
Amplitude
+45°
+30°
+15°
0°
FREQUENCY EH KMC
HORIZONTAL POLARIZATION
RADIUS
4
AZIMUTH
-10°
0°
more

GRV3-4


BEAM DEFLECTION CHECK
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Axis Error
Date Tested 2-13-61
Tested By GAJ
TRACK
Right
Up
TERRAIN CLEARANCE
SEARCH
Reflection: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FH MC AND
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-45° 0°
GAU3-4
Page 3-16

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ In-Plane Error
☐ Elevation Scan ☒ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-13-61
Tested By CAT

Report No. GR43-4

☒ TRACK ☐ SEARCH:
Reflector: ☐ Up ☐ Down

☐ Right
☒ Up

MILLIRADIANS

8
6
4
2
0
2
4
6
8

☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY EH MC
HORIZONTAL POLARIZATION

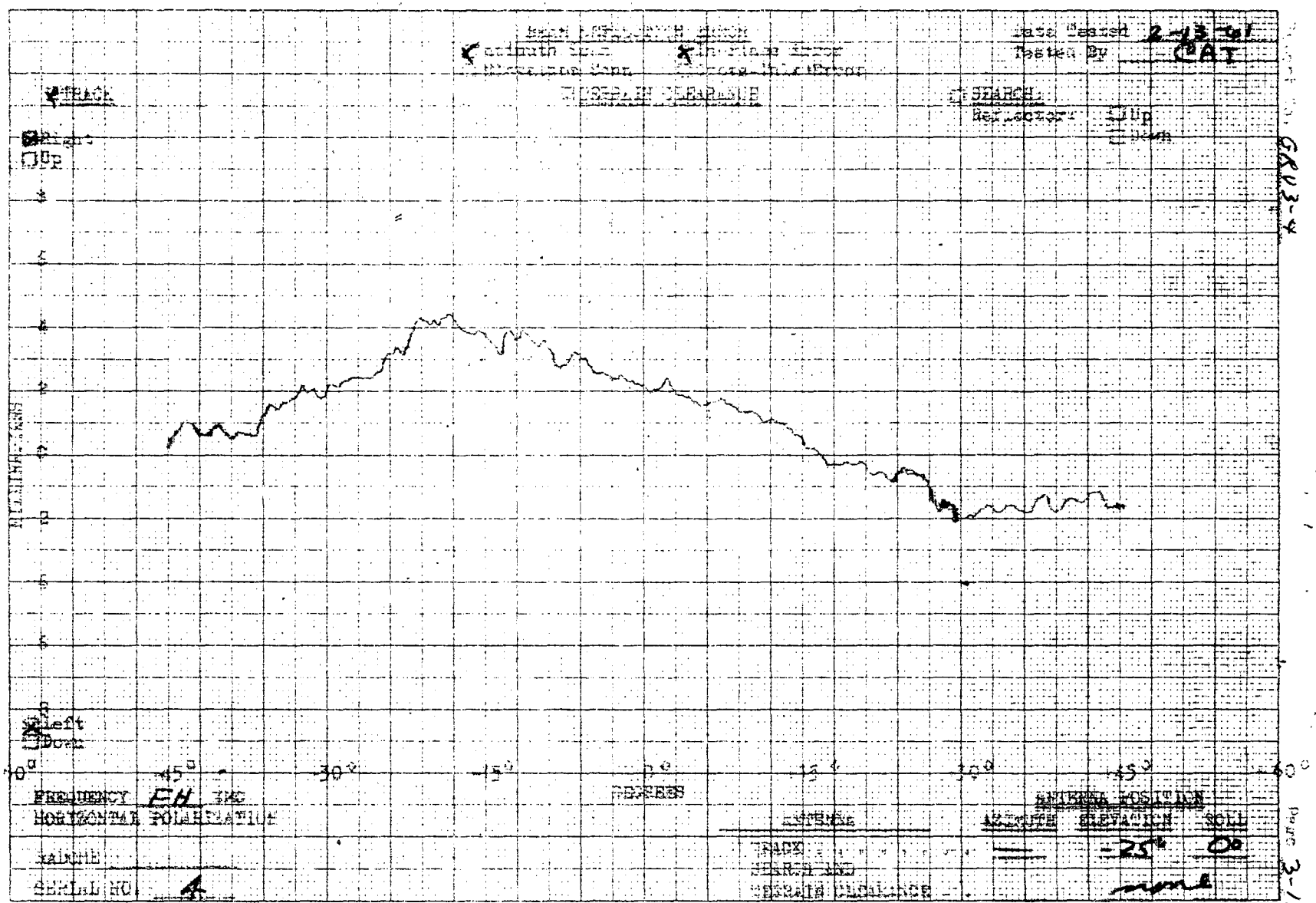
RADOME
SERIAL NO. 4

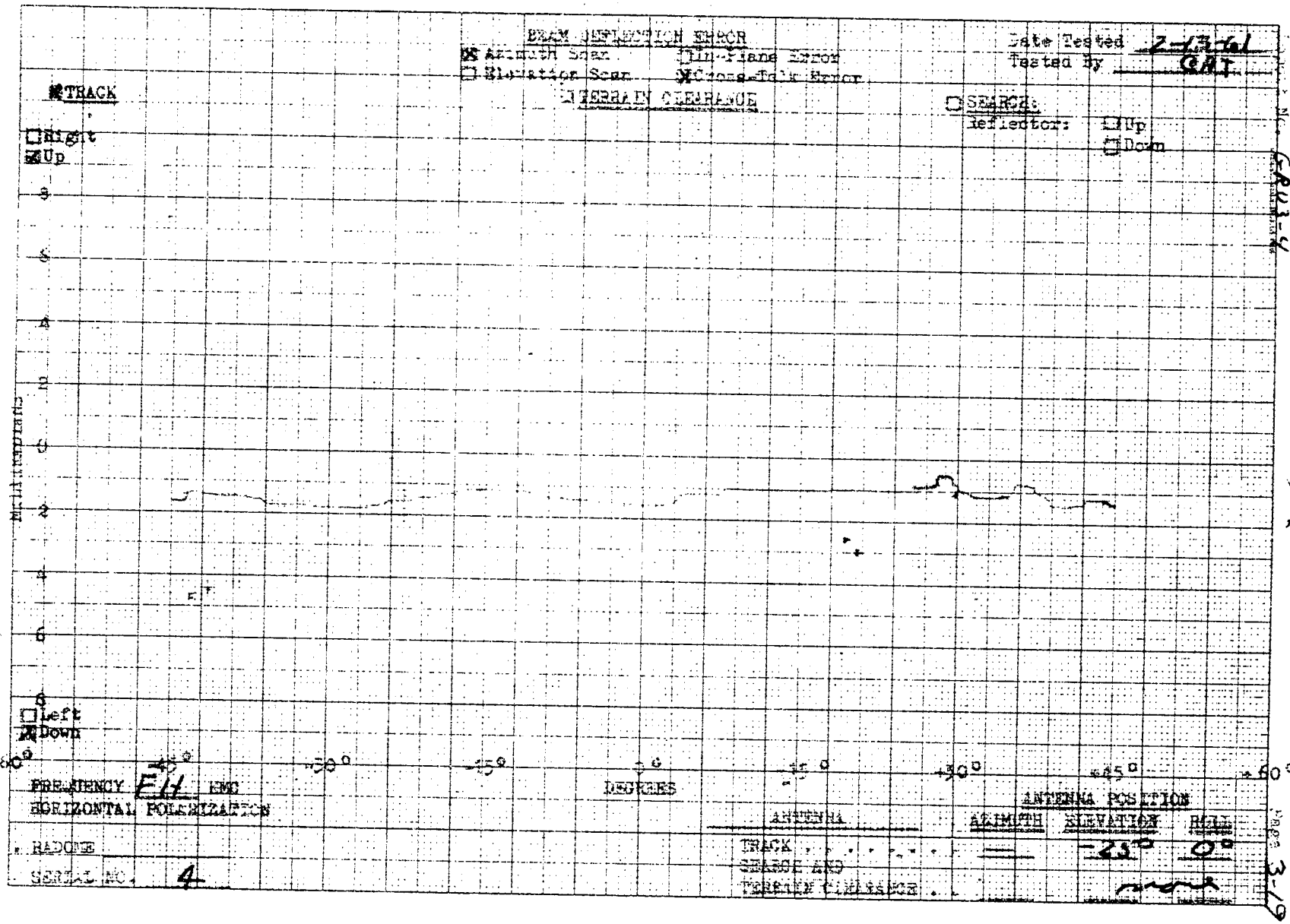
ANTENNA

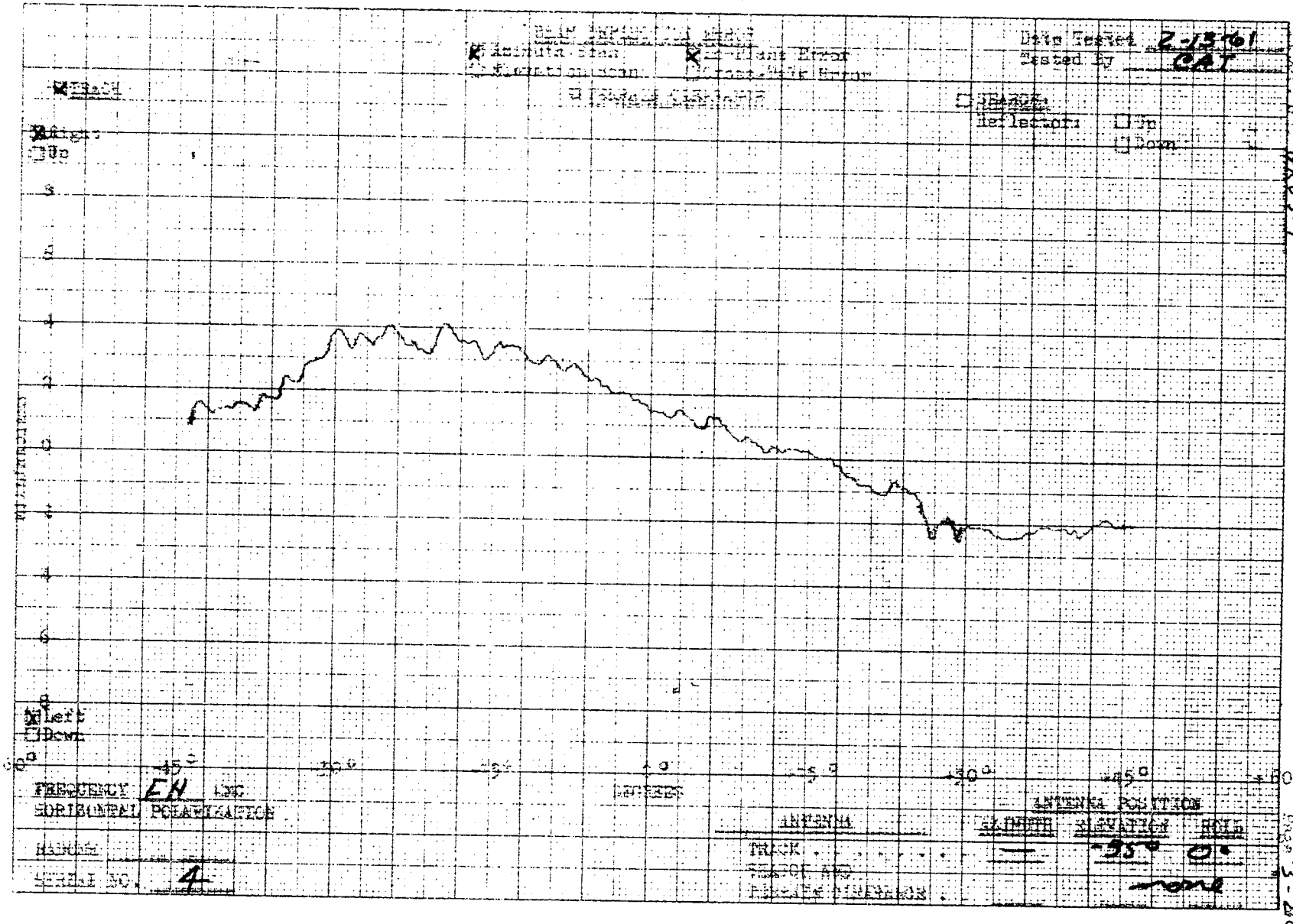
	AZIMUTH	ELEVATION	ROLL
TRACK	—	-15°	0°
SEARCH ASL			
TERRAIN CLEARANCE			

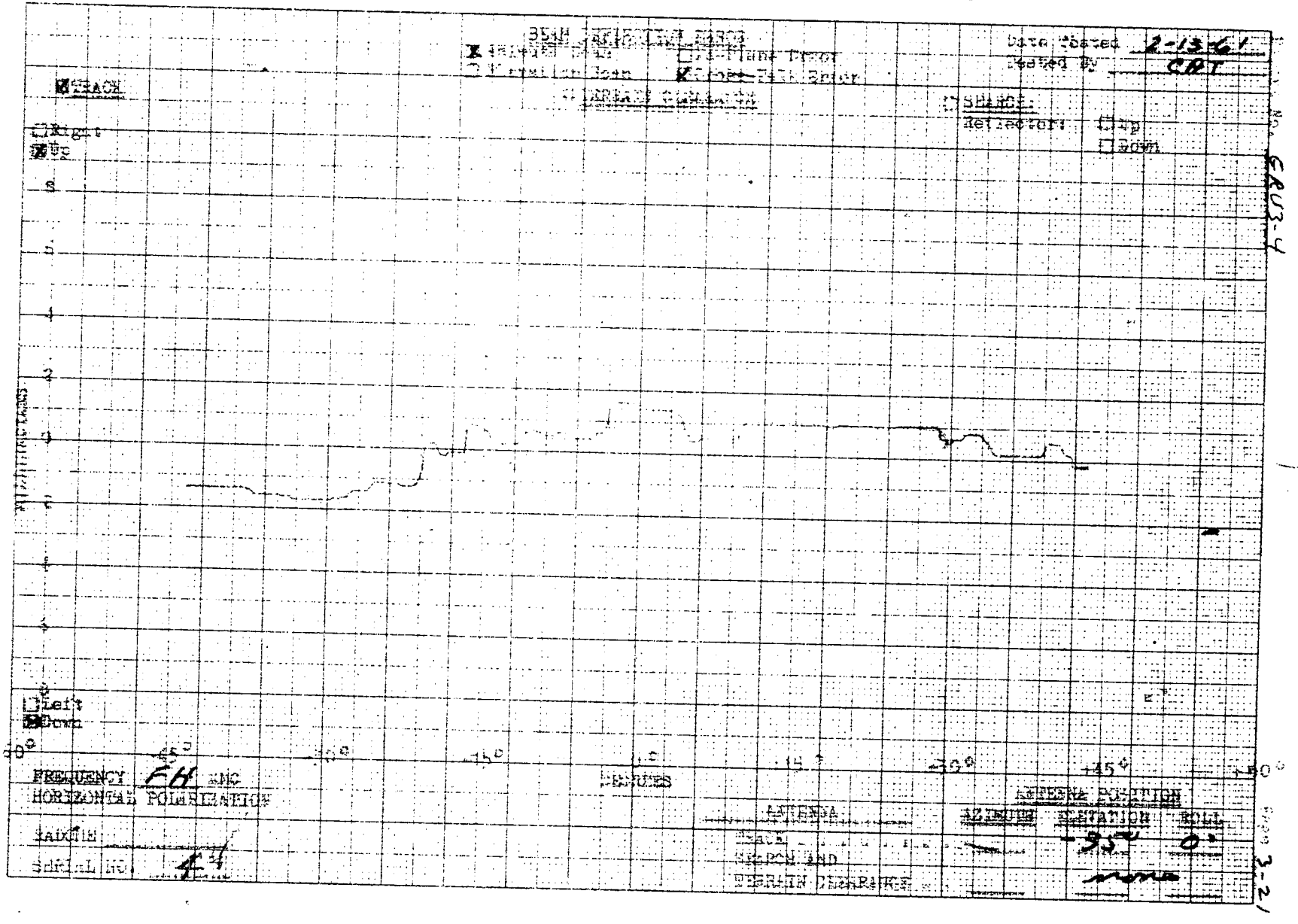
ANTENNA POSITION

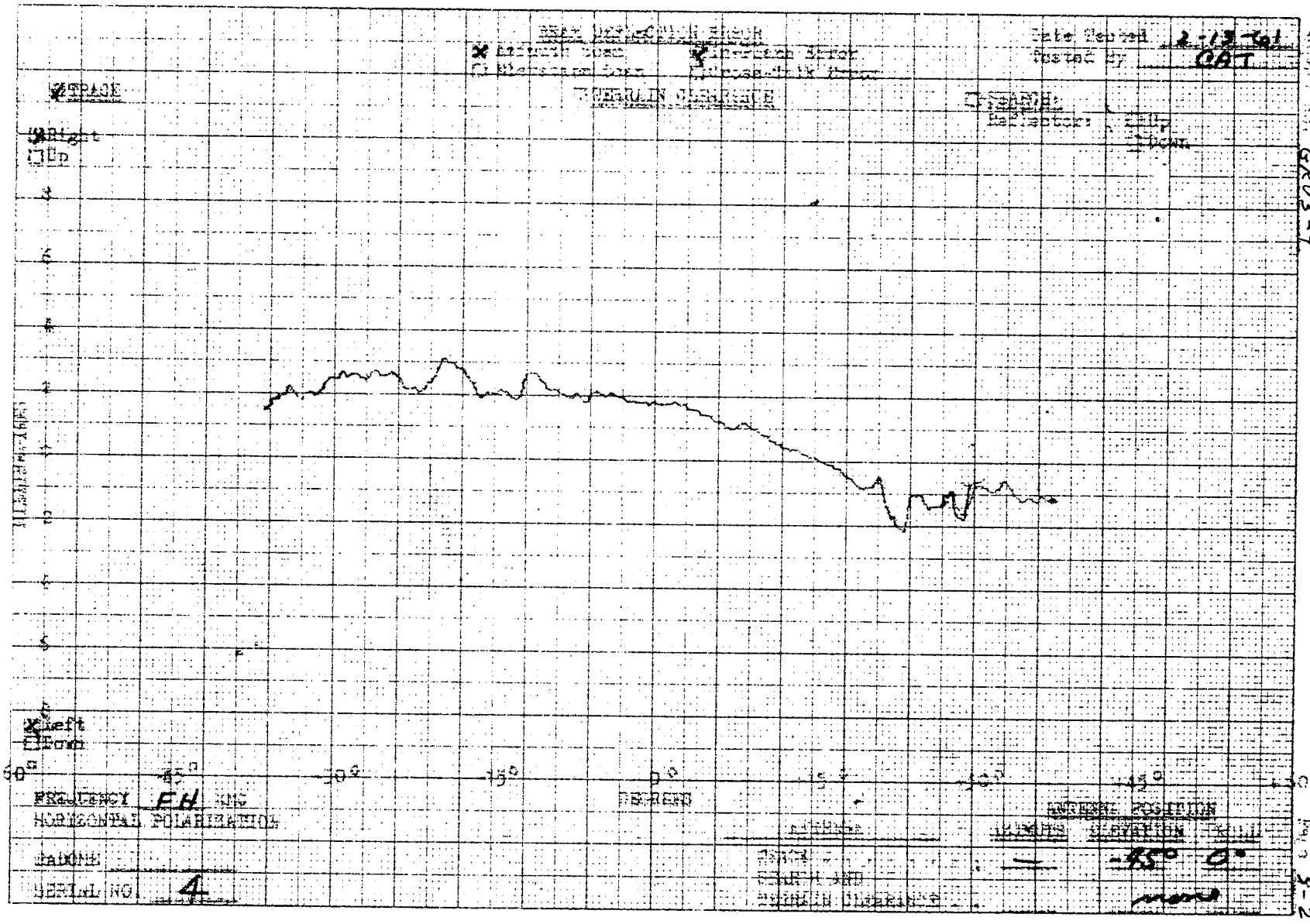
Page 3-17

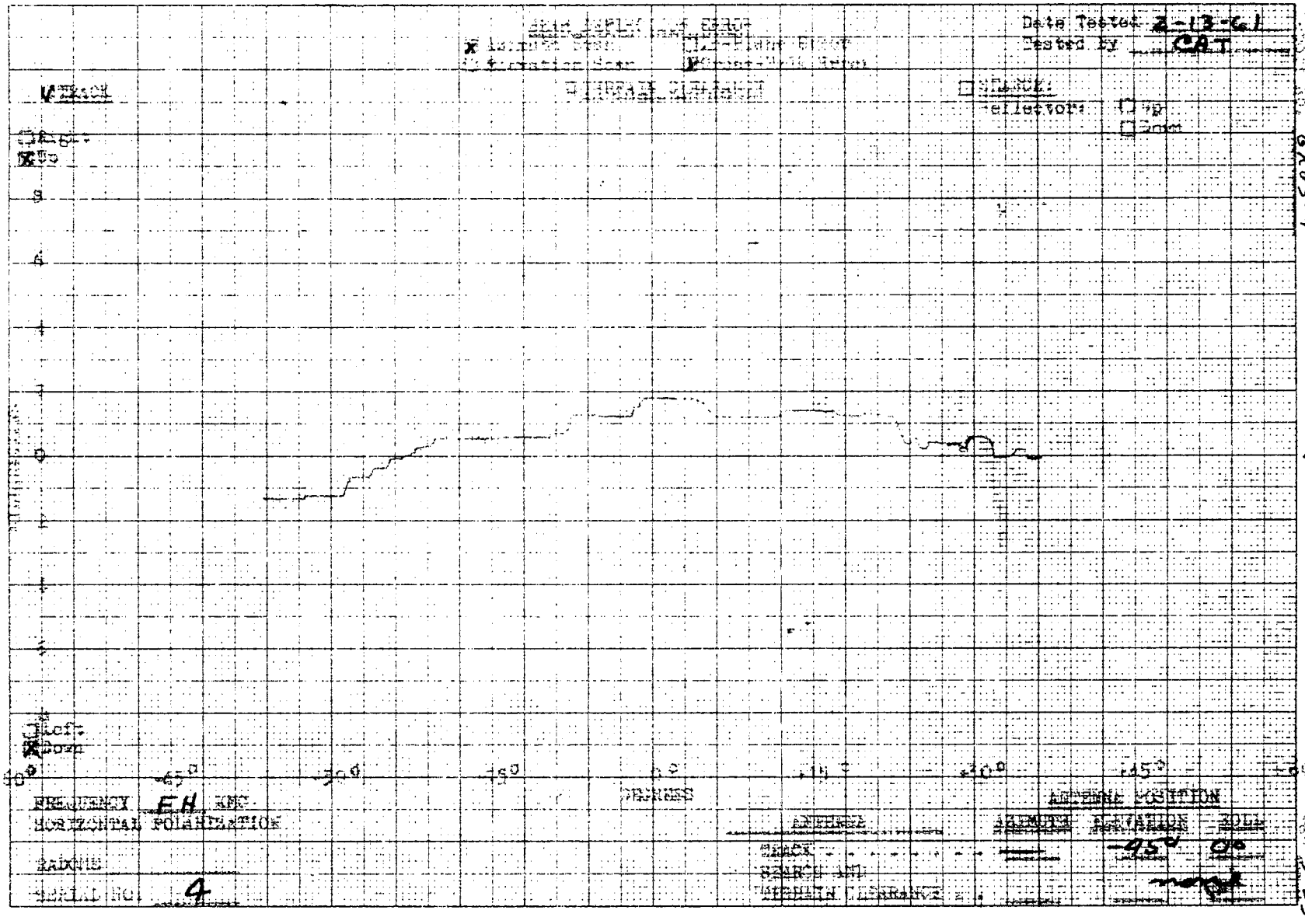

Azimuth Scale
Elevation Scale
Case Season
Tested By
TRACK
SEARCH
Reflectors
Up
Right
Up
Left
Down
-90°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
SCALE
-25°
0°
SERIAL NO.
4


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-13-64
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY EH EMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
-23°
0°
GRADE AND
TERRAIN CLEARANCE
CAW3-4
3-19


Date Tested 2-15-61
Tested By CAT
Azimuth Scan
Plane Error
Track
Beacon
Deflection: Up Down
Left
Down
FREQUENCY EH MC
HORIZONTAL POLARIZATION
RUN NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION HGT
TRACK -35° 0'
-none
ERR3-4
5-20


Date Tested 2-13-61
Tested By CRT
EAU3-4
Track
Right
Up
Left
Down
Signal Reflection
Up
Down
ATTENUATION DB
FREQUENCY 5H MC
HORIZONTAL POLARIZATION
AZIMUTH -95°
ELEVATION 0°
ROLL
3-21


Date Received 2-13-61
Tested By OAT
GRU3-4
Right
Up
Left
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
AZIMUTH
SERIAL NO. 4
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
-45° 0°
3-22


Date Tested 2-13-61
Tested By CAT
GRU3-4
FREQUENCY EH MC
HORIZONTAL POLARIZATION
-40°
-45°
-30°
-15°
+15°
+30°
+45°
-95°

SECTION 30

TRACK BORESIGHT ERROR

$F_{/\!/}$ @ -15° ROLL

BEAM DEFLECTION ERROR

Date Tested 3-3-61

Tested By [illegible]

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

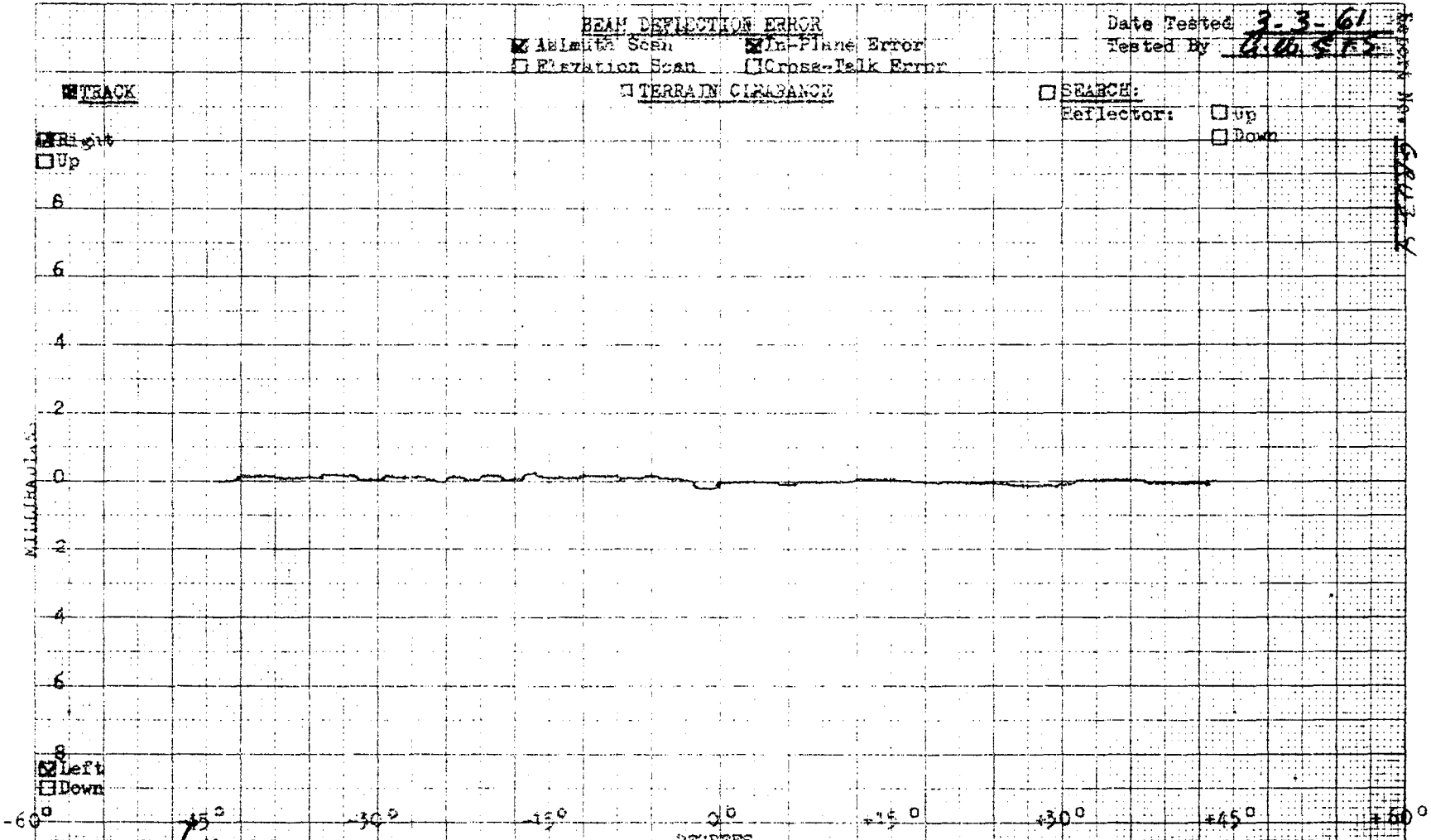
☐ SEARCH:

Reflector: ☐ Up ☐ Down

☒ TRACK

☒ Right

☐ Up



☒ Left

☐ Down

FREQUENCY 7.4 KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	AZIMUTH	ELEVATION	HOLE
TRACK	—	0°	-25°
SEARCH AND TERRAIN CLEARANCE		NONE	

ANTENNA POSITION

No Radome

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ Cross-Plane Error

☐ Elevation Scan ☒ Beam-Talk Error

Date Tested 3-3-61

Tested by [illegible]

☒ TRACK ☐ TERRAIN CLEARANCE ☐ SEARCH

Reflector: ☐ Up ☐ Down

☐ Right
☒ Up

Milliradians

8
6
4
2
0
2
4
6
8

☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fm MC

HORIZONTAL POLARIZATION

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	BOOM
TRACK	—	0°	-15°
SEARCH AND TERRAIN CLEARANCE		NONE	

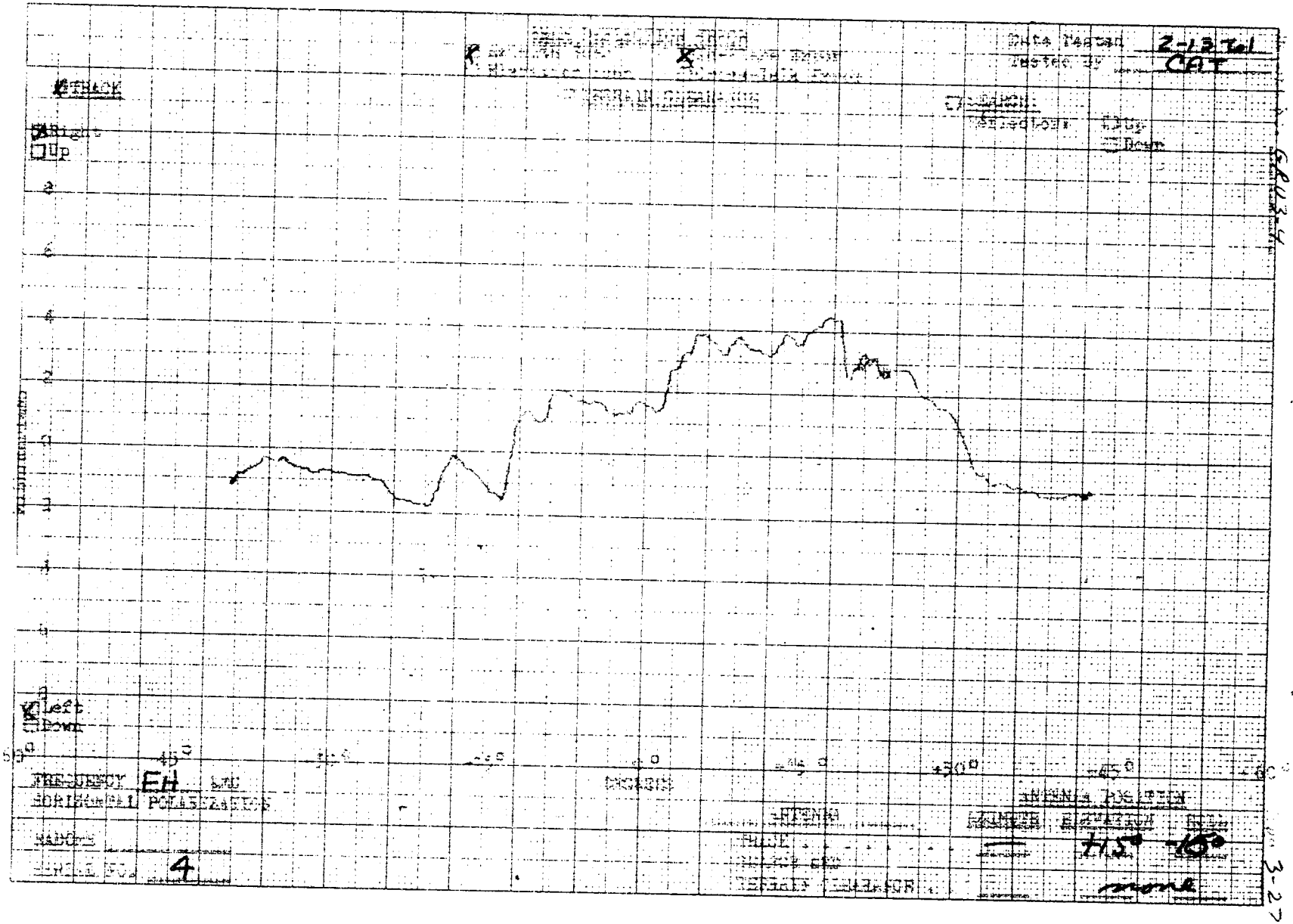
MACOM 128B10005-3

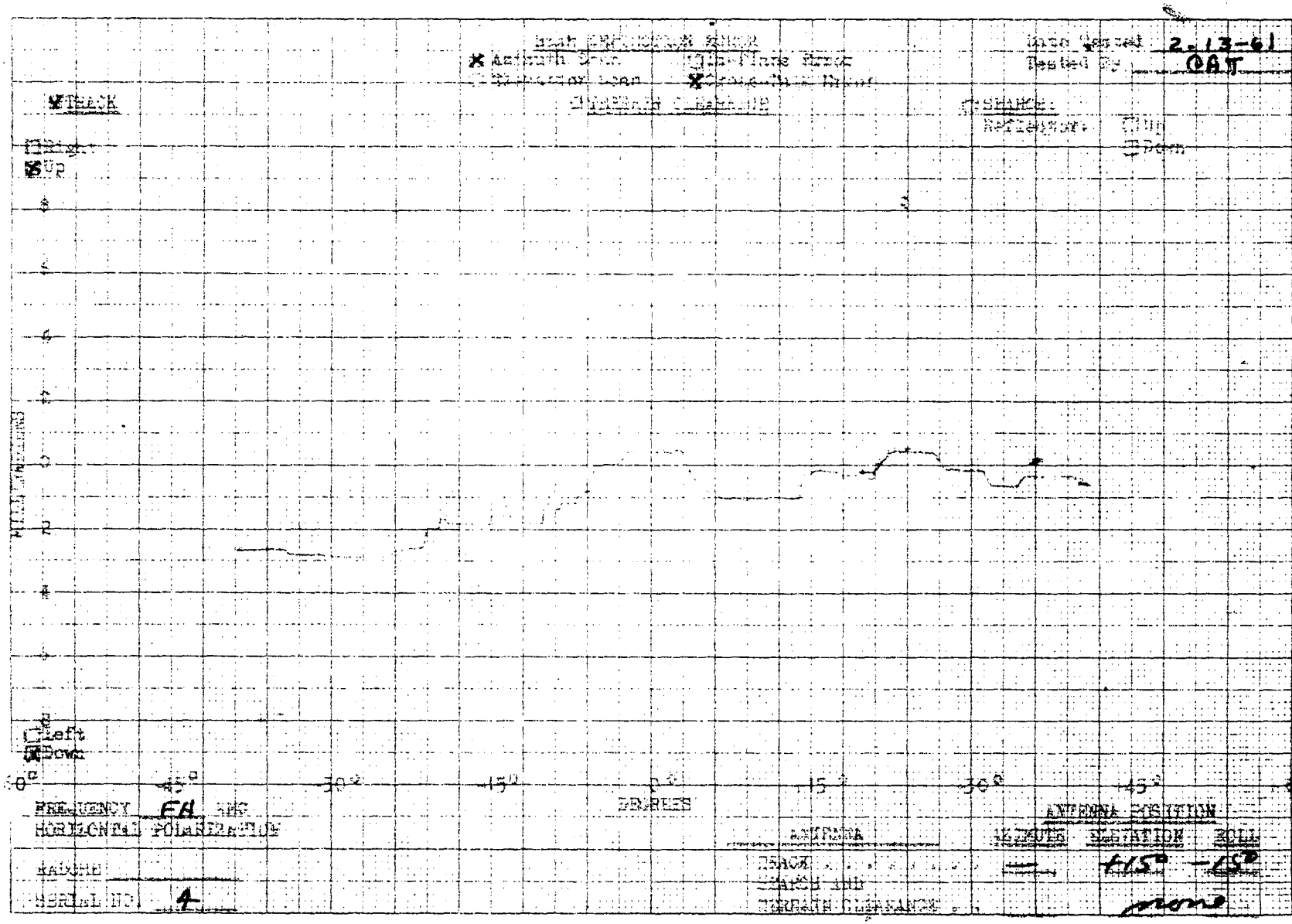
Serial No. 4

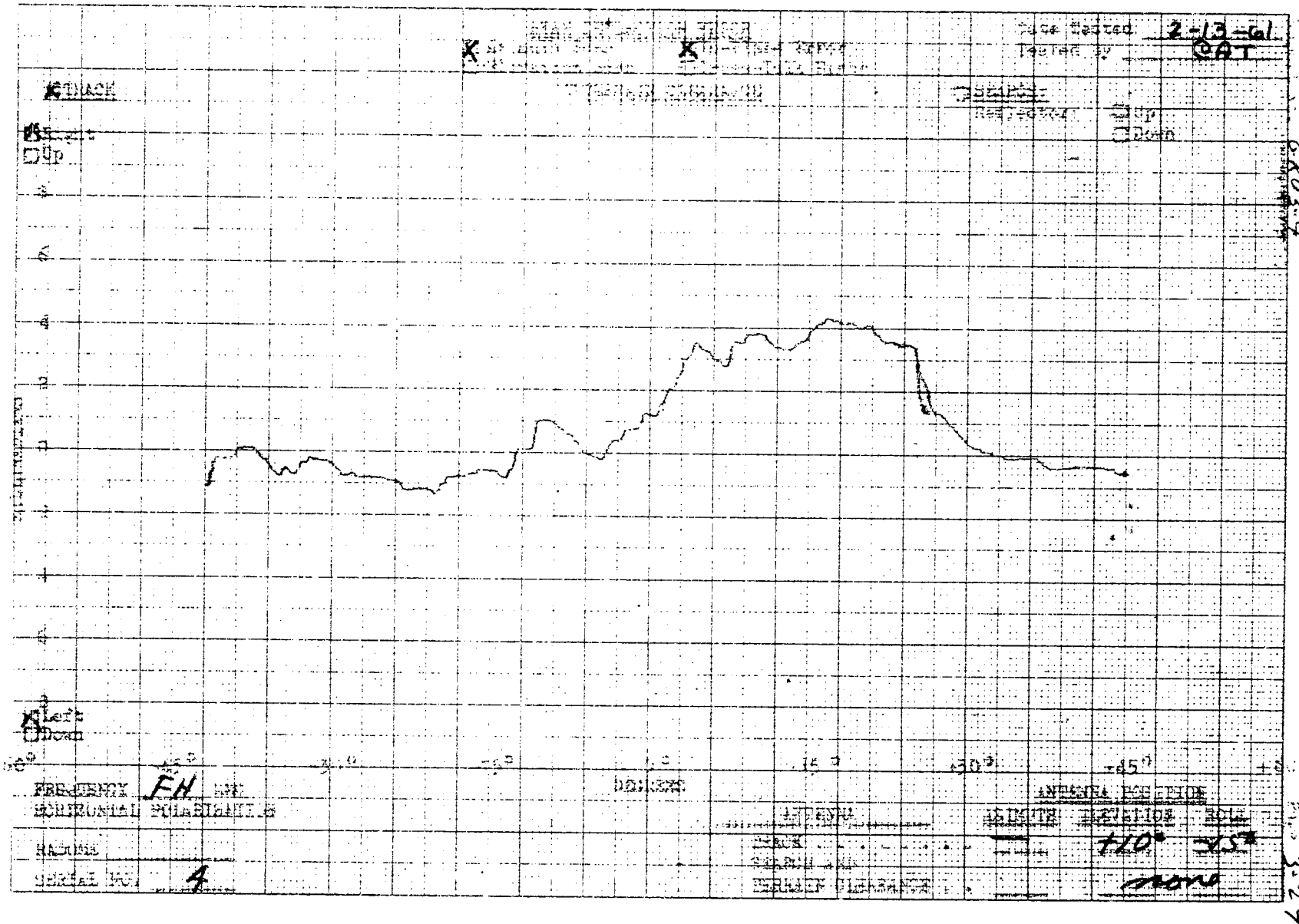
Report No. GPU3-4

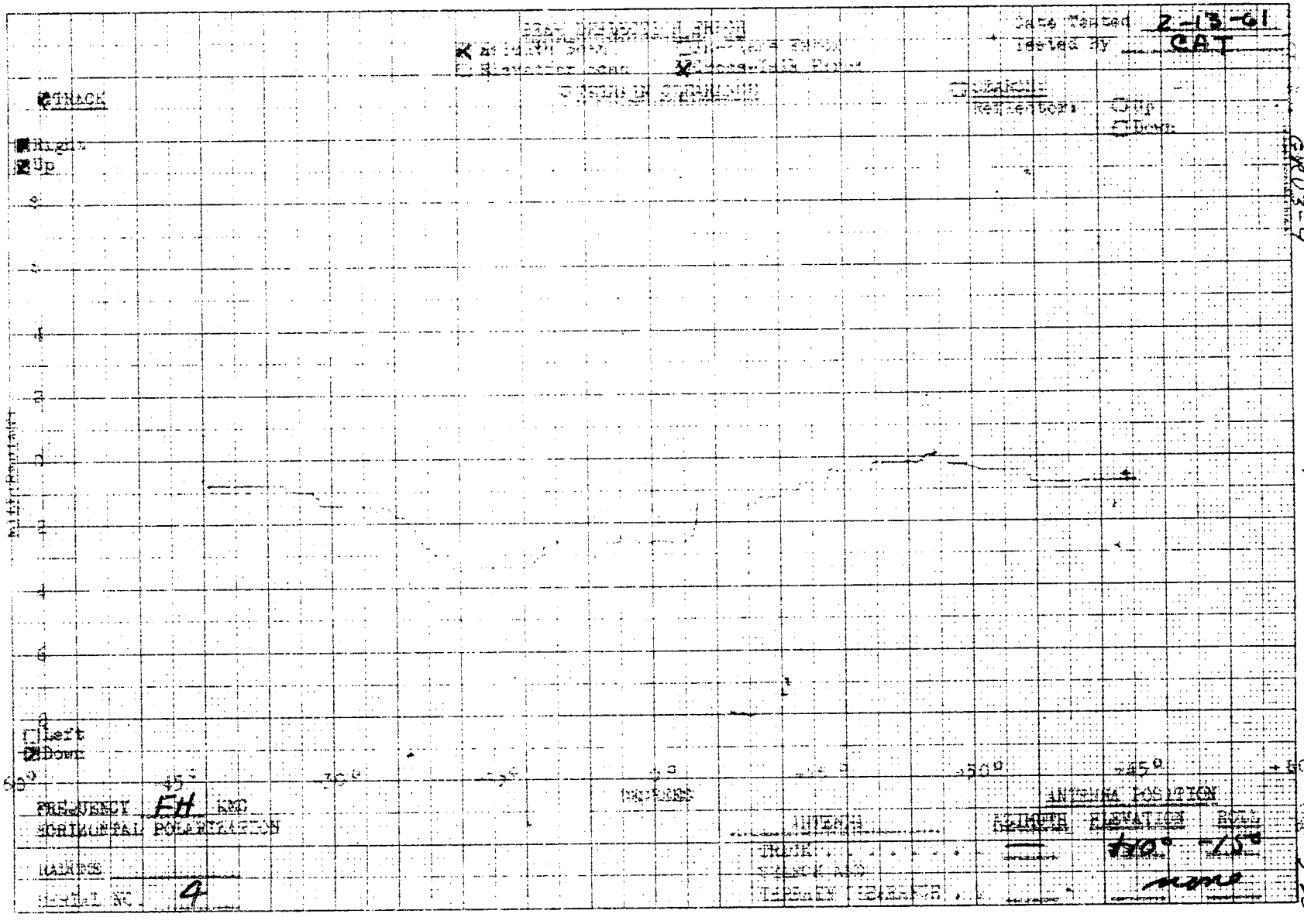
Page 3-36

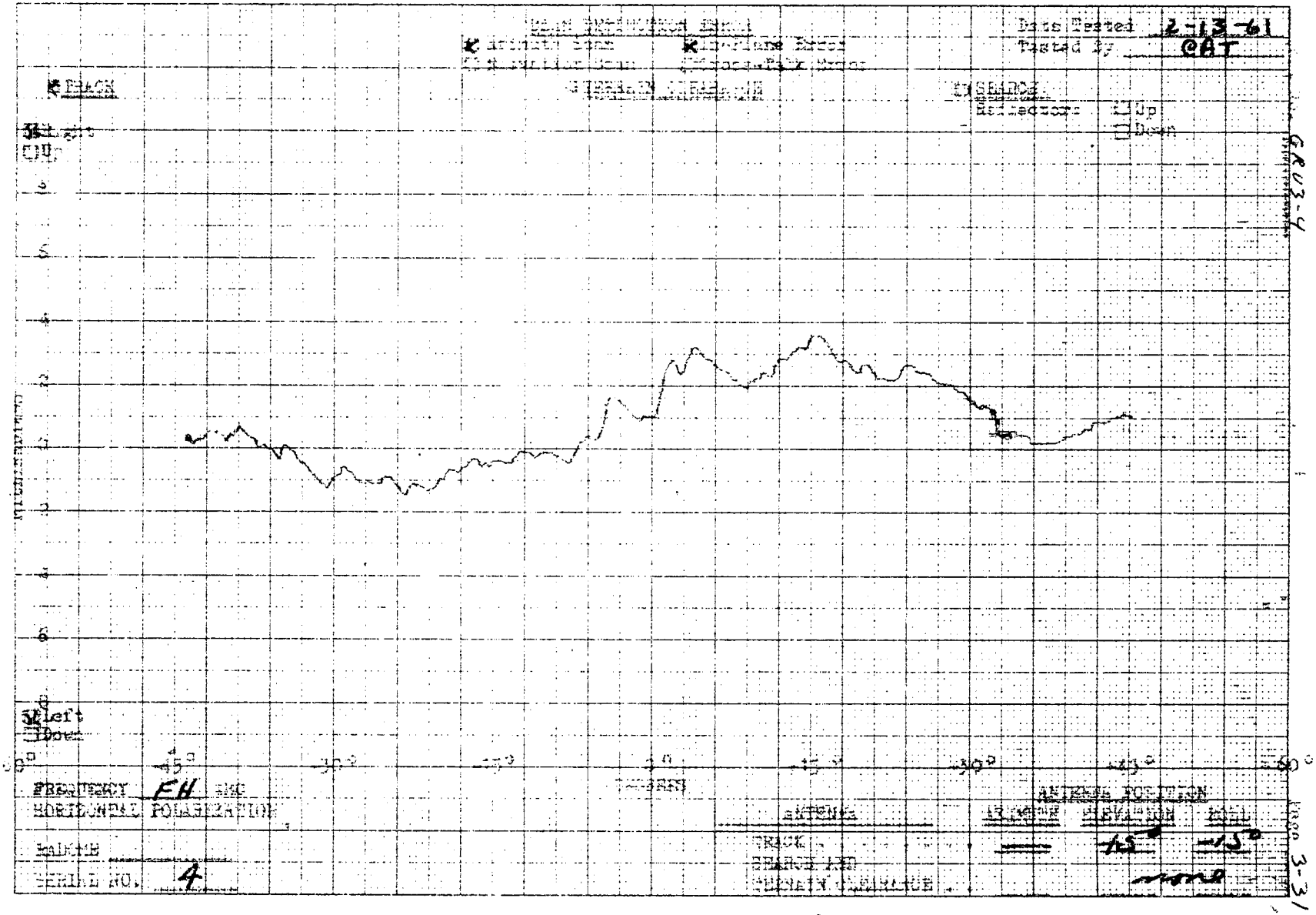
No Radome

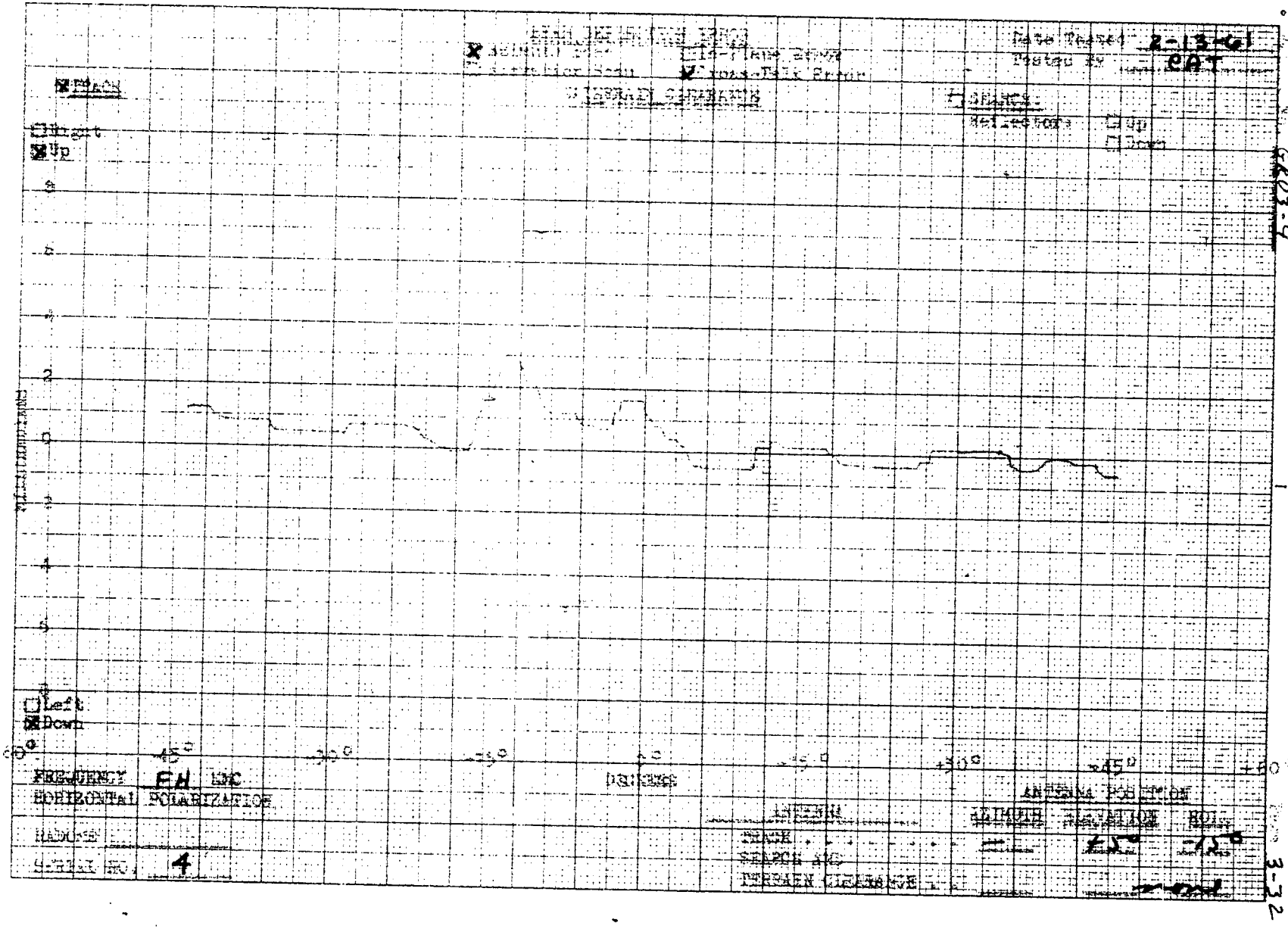

Date Taken 2-13 Tel
Tested By CAT
Left
Down
FREQUENCY EH MHz
+15° -15°
none
3-27

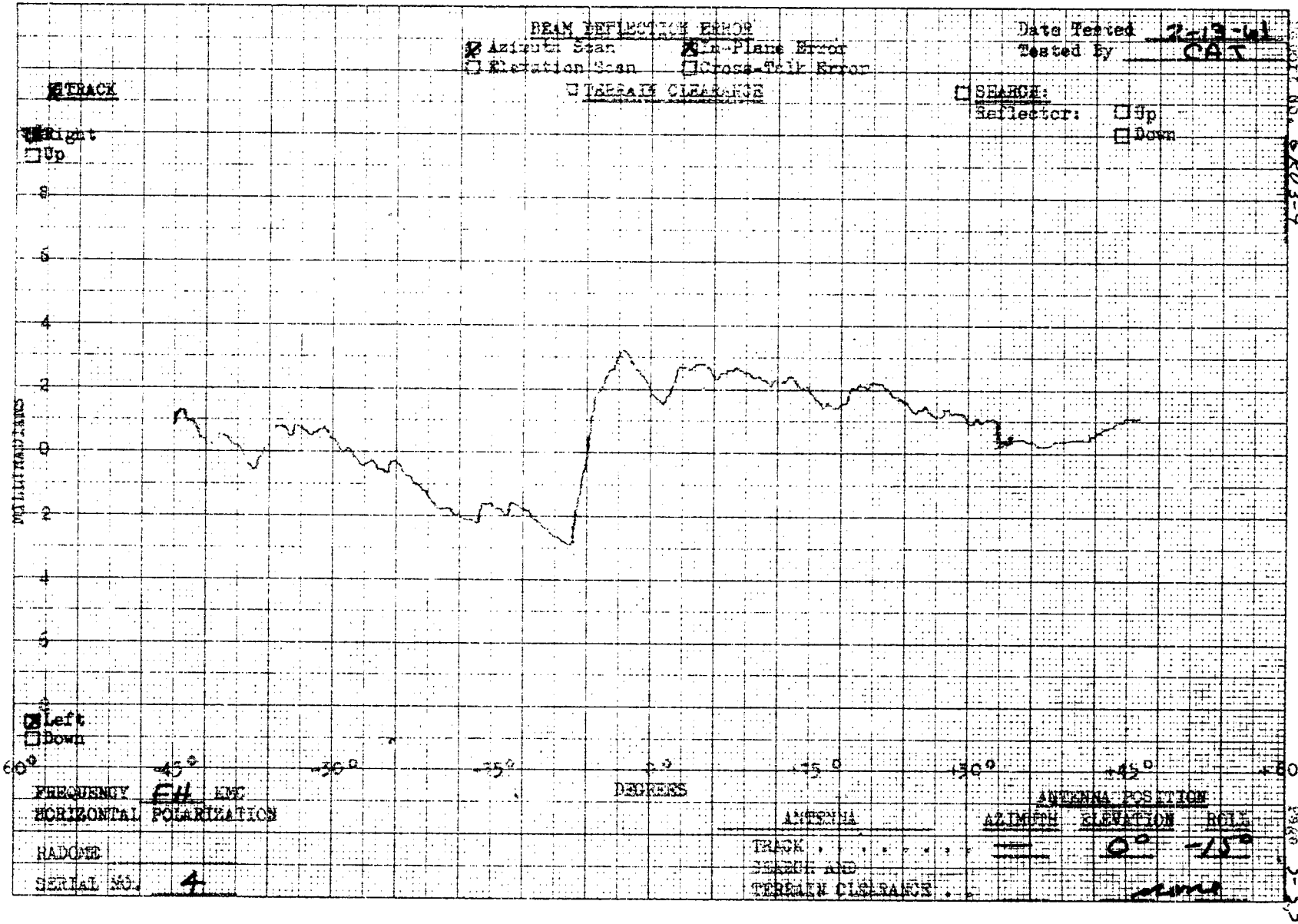

Date Tested 2-13-61
Tested By CAT
TRACK
Right
UP
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY FA MC
HORIZONTAL POLARIZATION
SERIAL NO 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
+15°
-15°
none

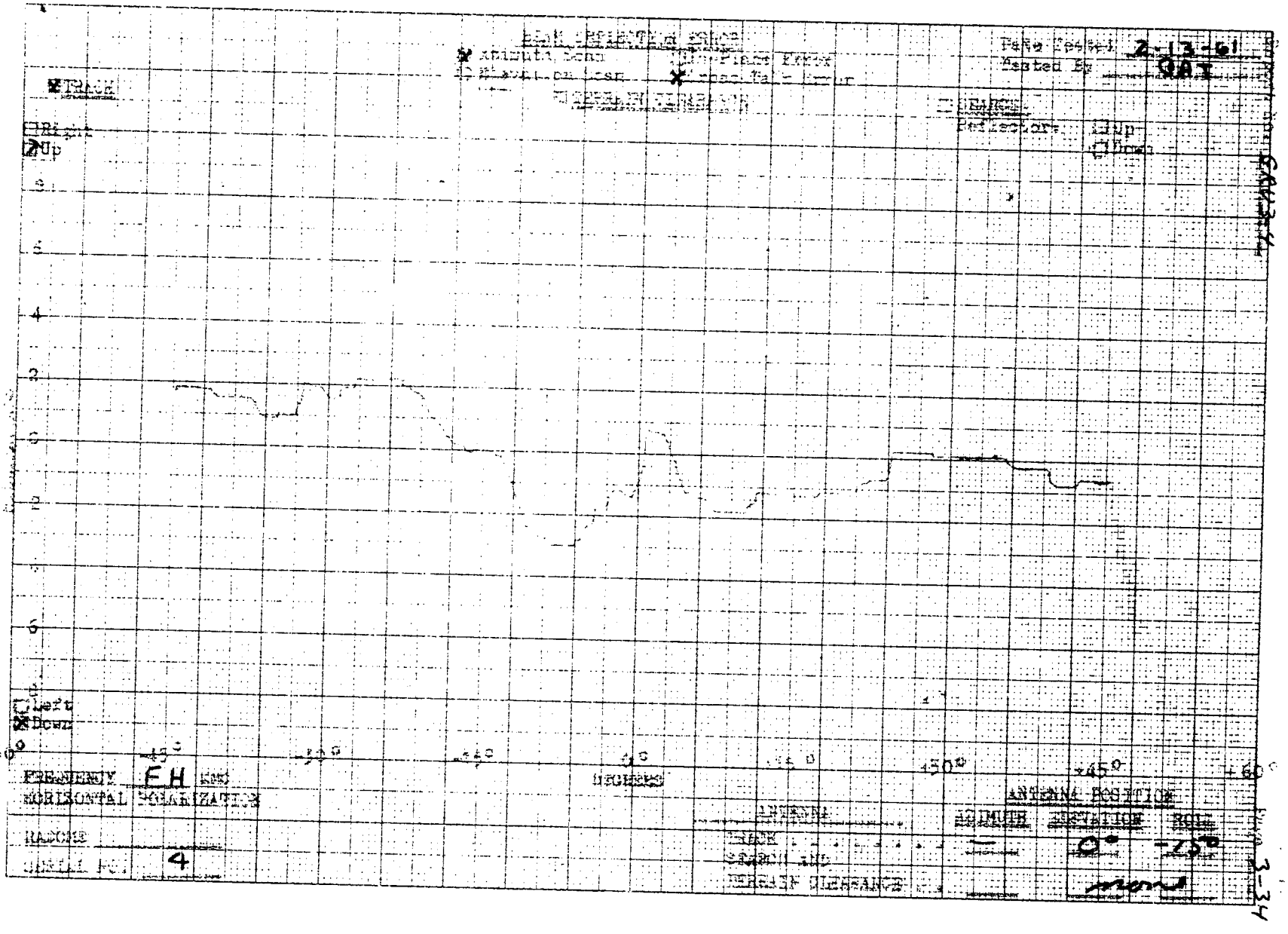

Date Tested 2-13-91
Tested By CAT
Back
Up
Down
Left
Down
Right
Up
Down
Frequency FH
Horizontal Sensitivity
Gain
Vertical Sensitivity
Degrees
Amplitude
Latency
Peak
Trough
Interpeak Difference
Amplitude Ratio
Latency Difference
Normal
+10%
+1.5ms
none
GRU3-4
3-29

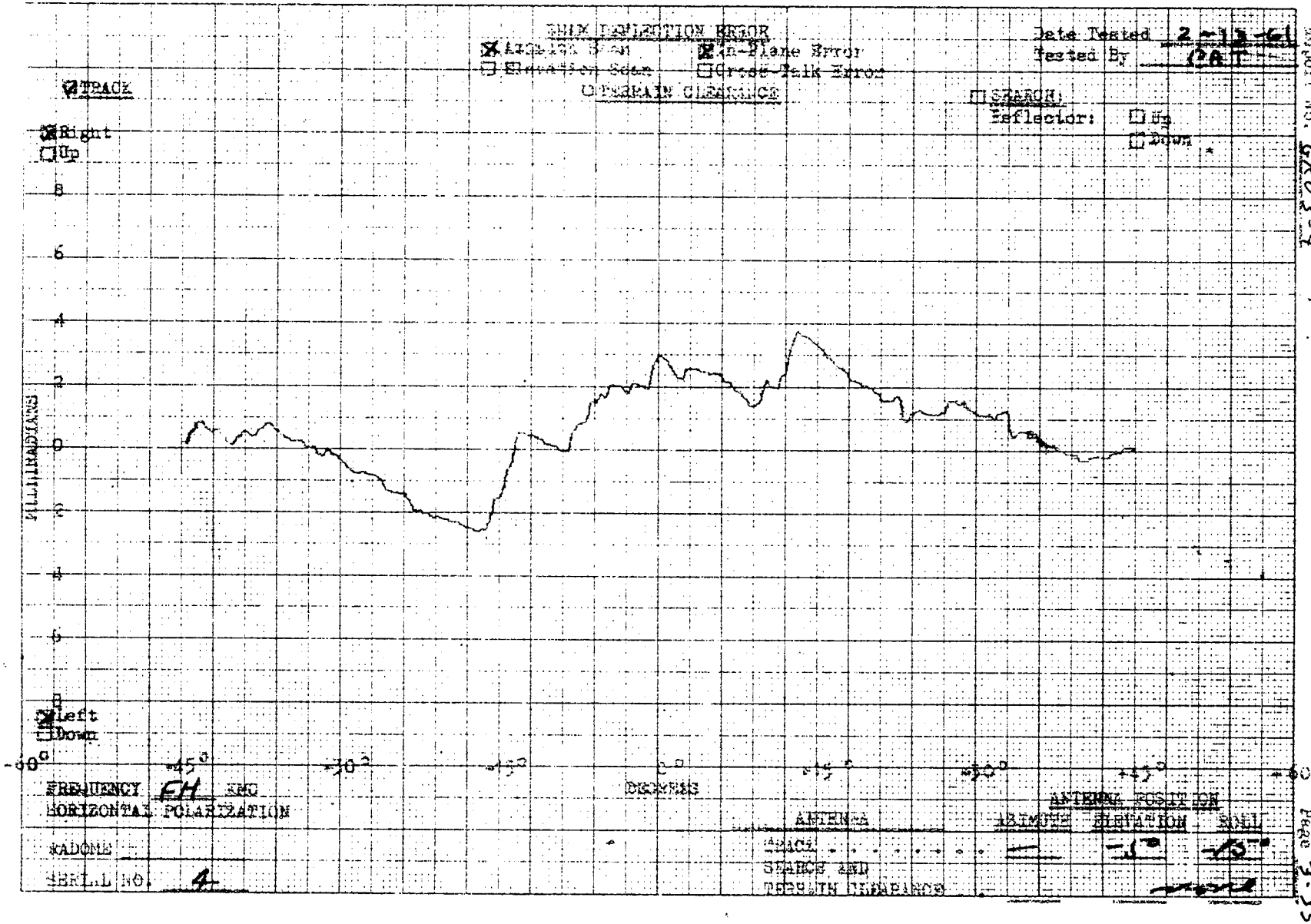

Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
-60°
+60°
FREQUENCY Fit KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
+30°
-0.5°
none
4
3-30


Date Tested 2-13-61
Tested by CAT
TRACK
ENHANCE
Reflectors
Up
Down
Left
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
TRACK
SERIAL NO. 4
GRU3-4
3-31


Date Tested 2-13-61
Tested By CAT
Right
Up
Left
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
NUMBER NO. 4
DEGREES
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
+45°
+12.5°
-45°
+60°
-60°

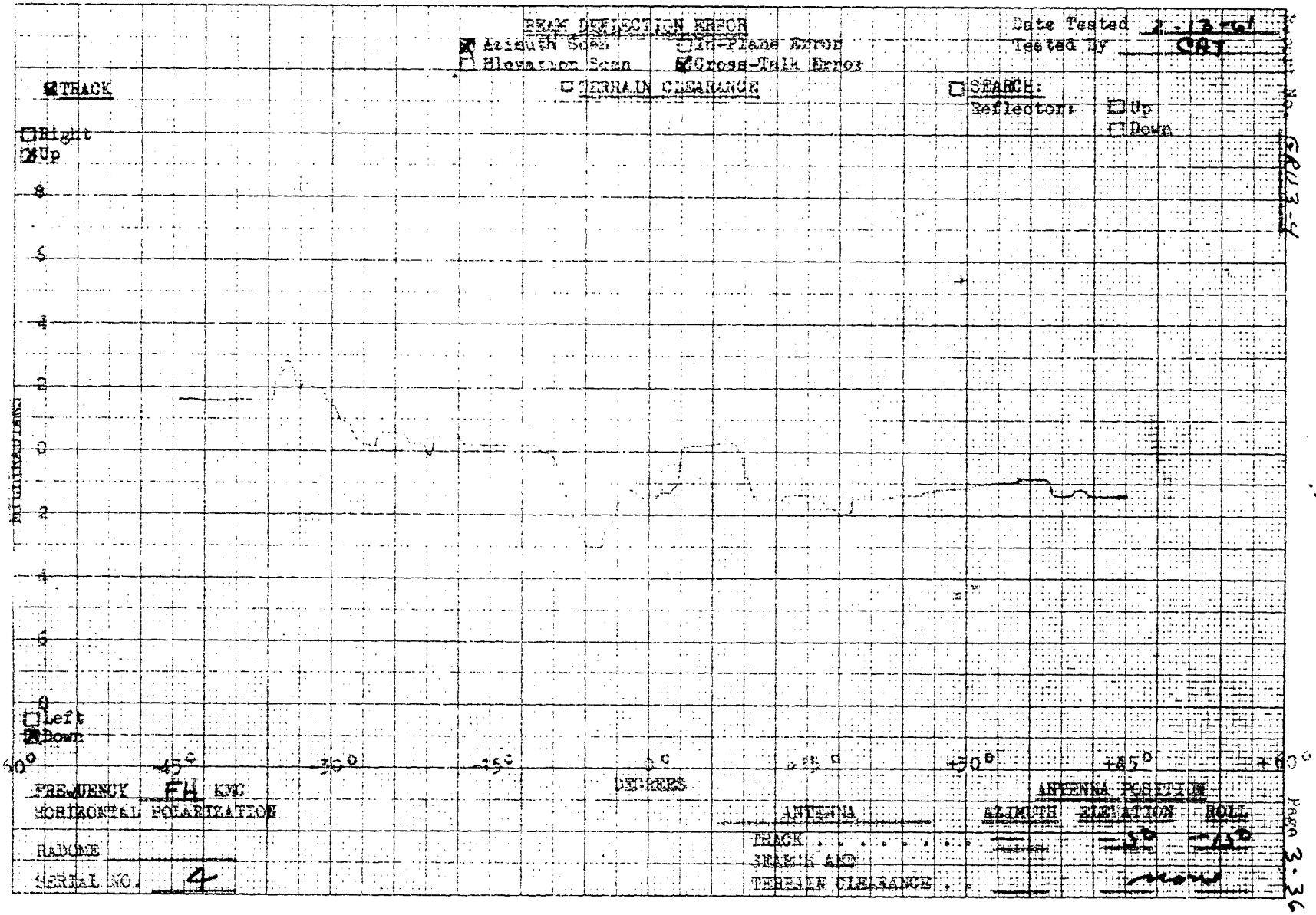

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-13-64
Tested by CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6H MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° -15°
SRW3-4
Page 3-3.3

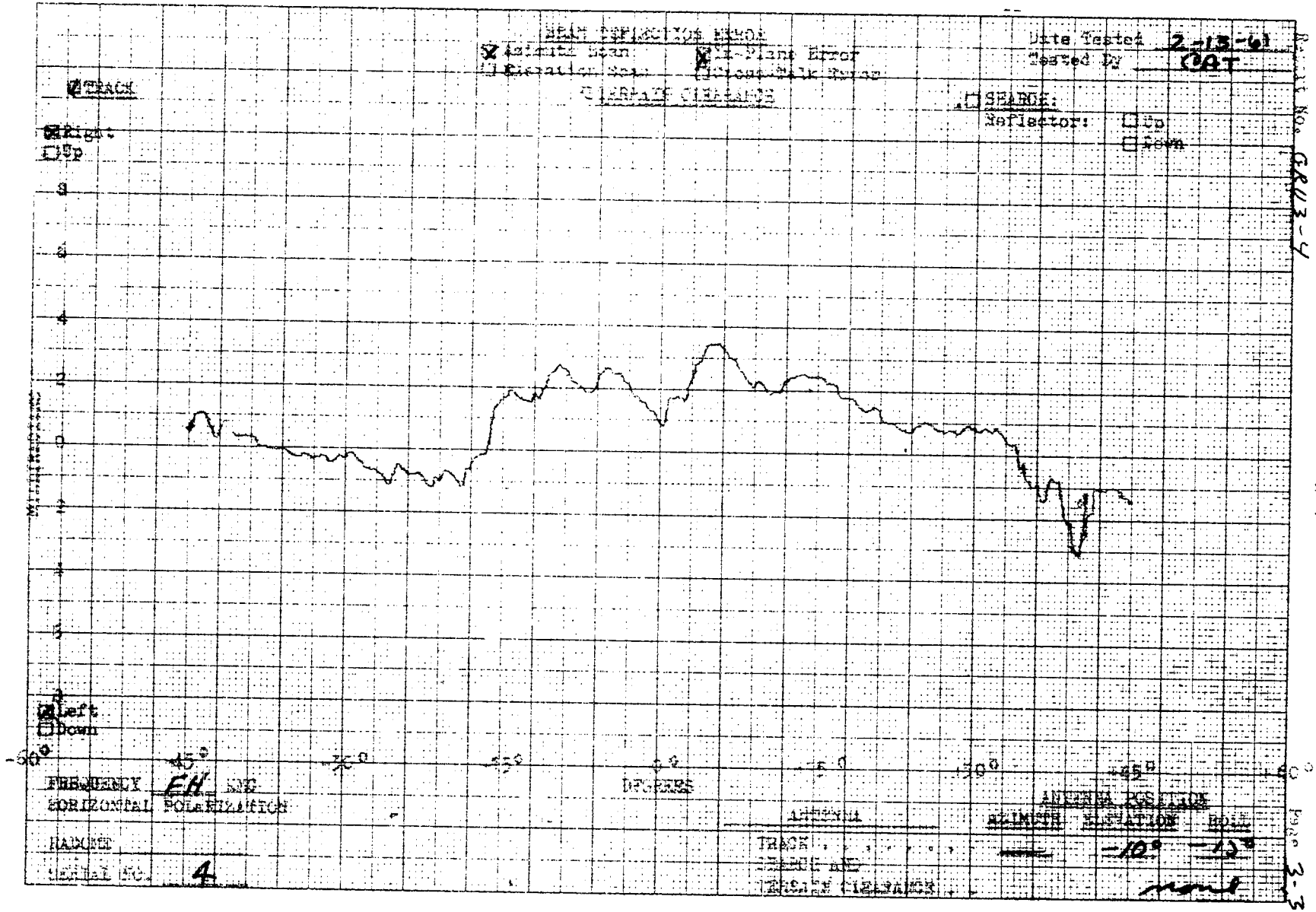

TRACK
Up
Down
Date Tested: 2-13-61
Tested By: QAT
Reflectors: Up Down
FREQUENCY FH (mc)
HORIZONTAL POLARIZATION
RADOME
UNIT NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° -45°
DEGREES
-60° -45° -30° -15° 0° +15° +30° +45° +60°

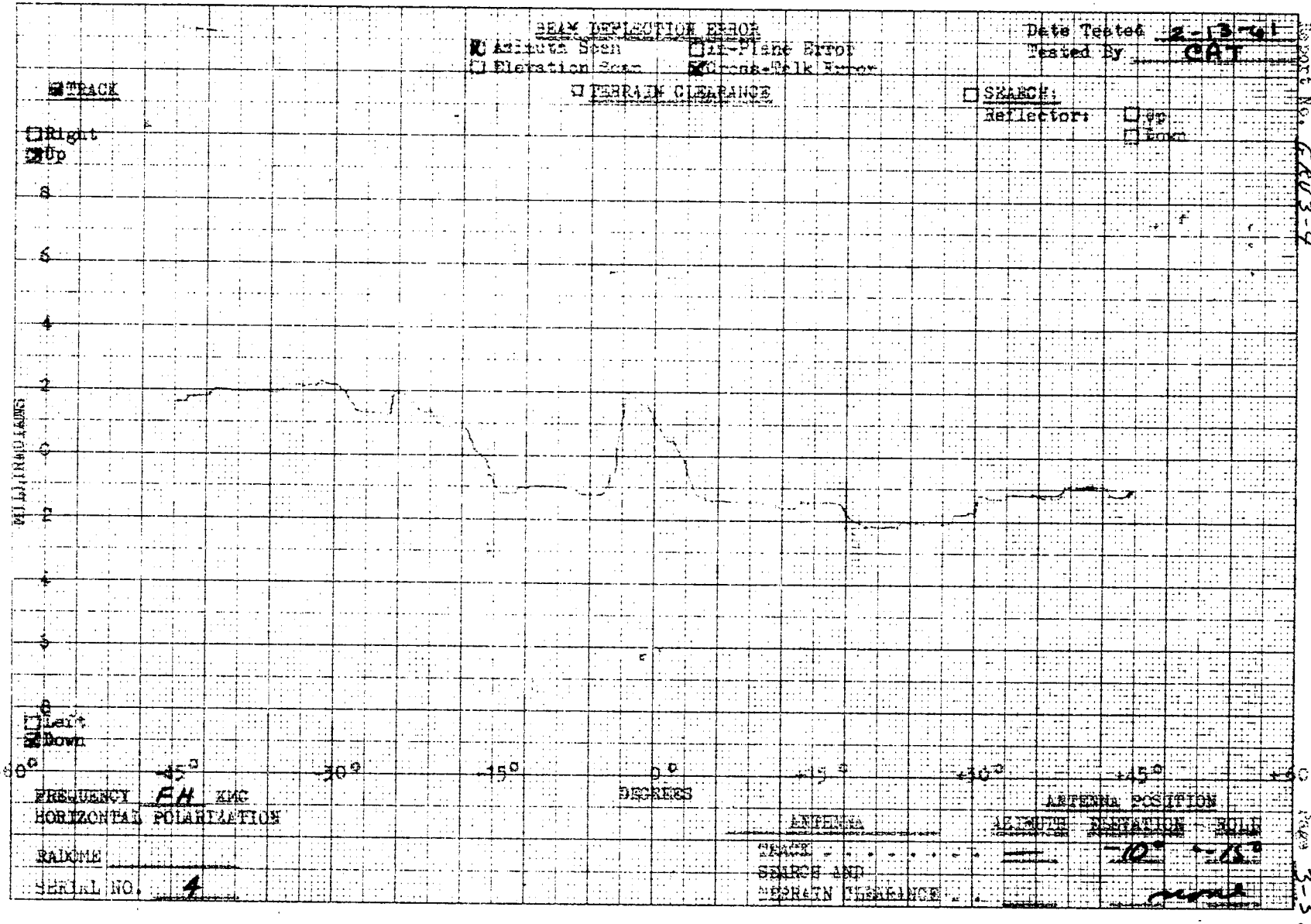


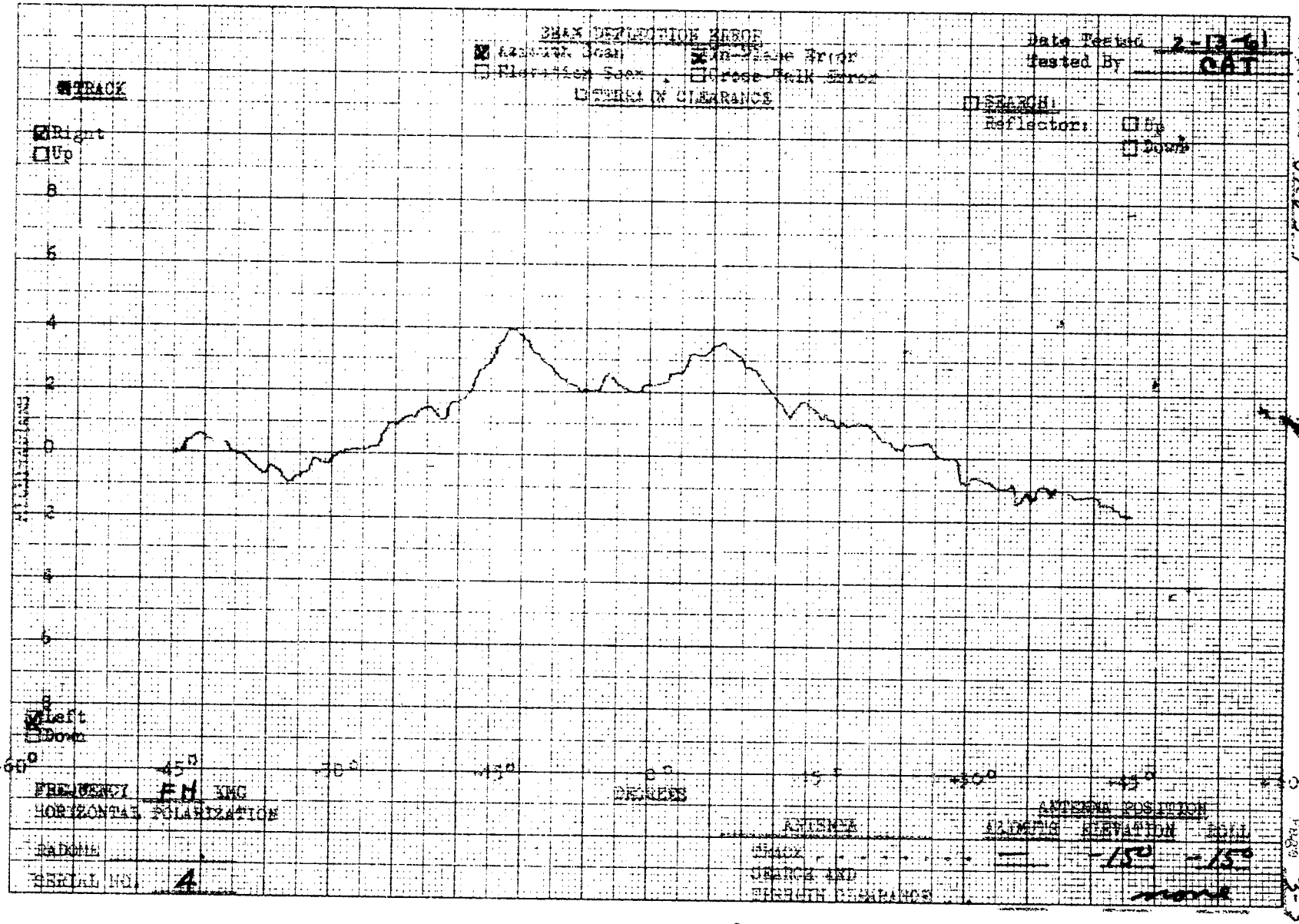
Report No. GEU3-4

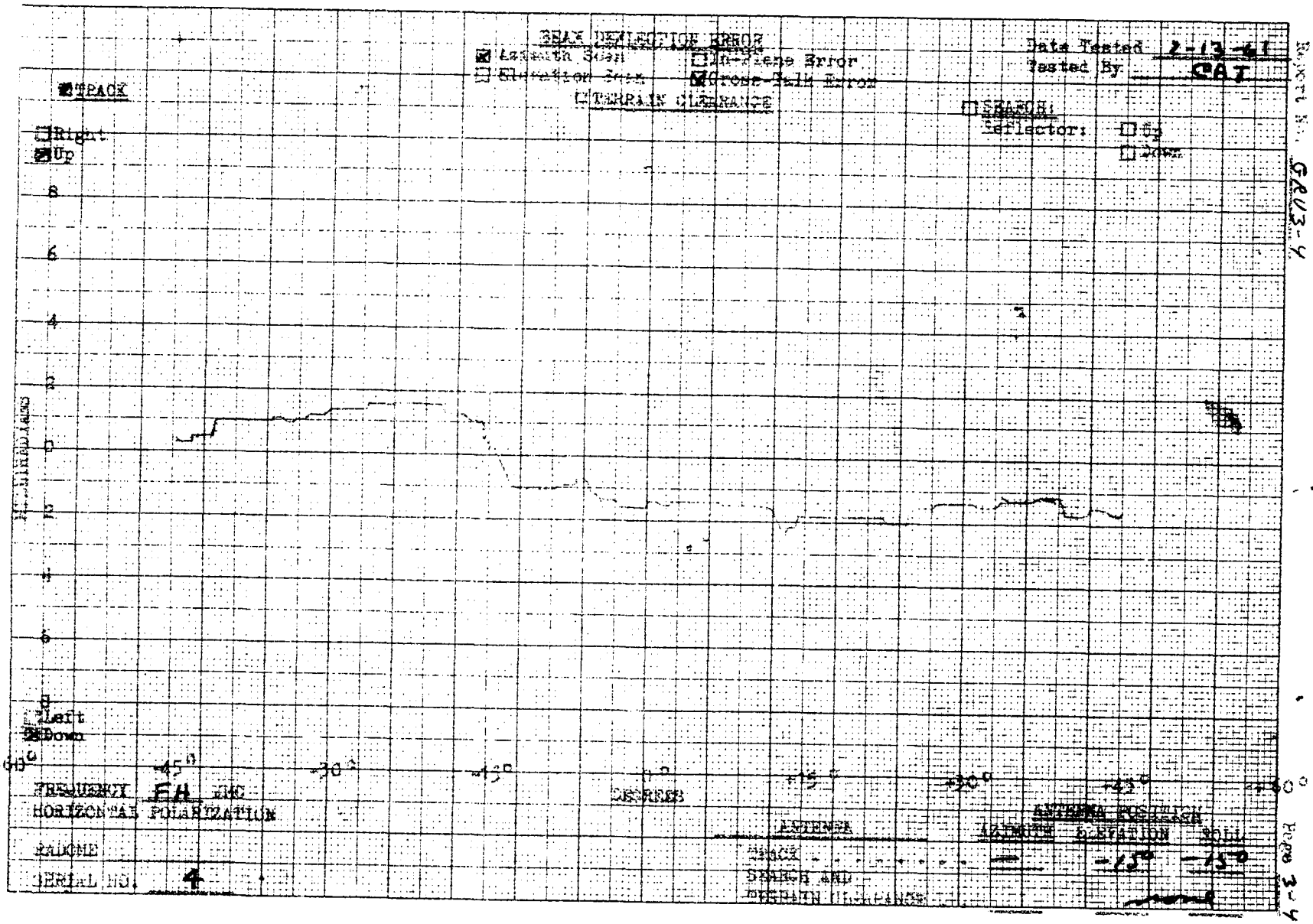
Page 3-35

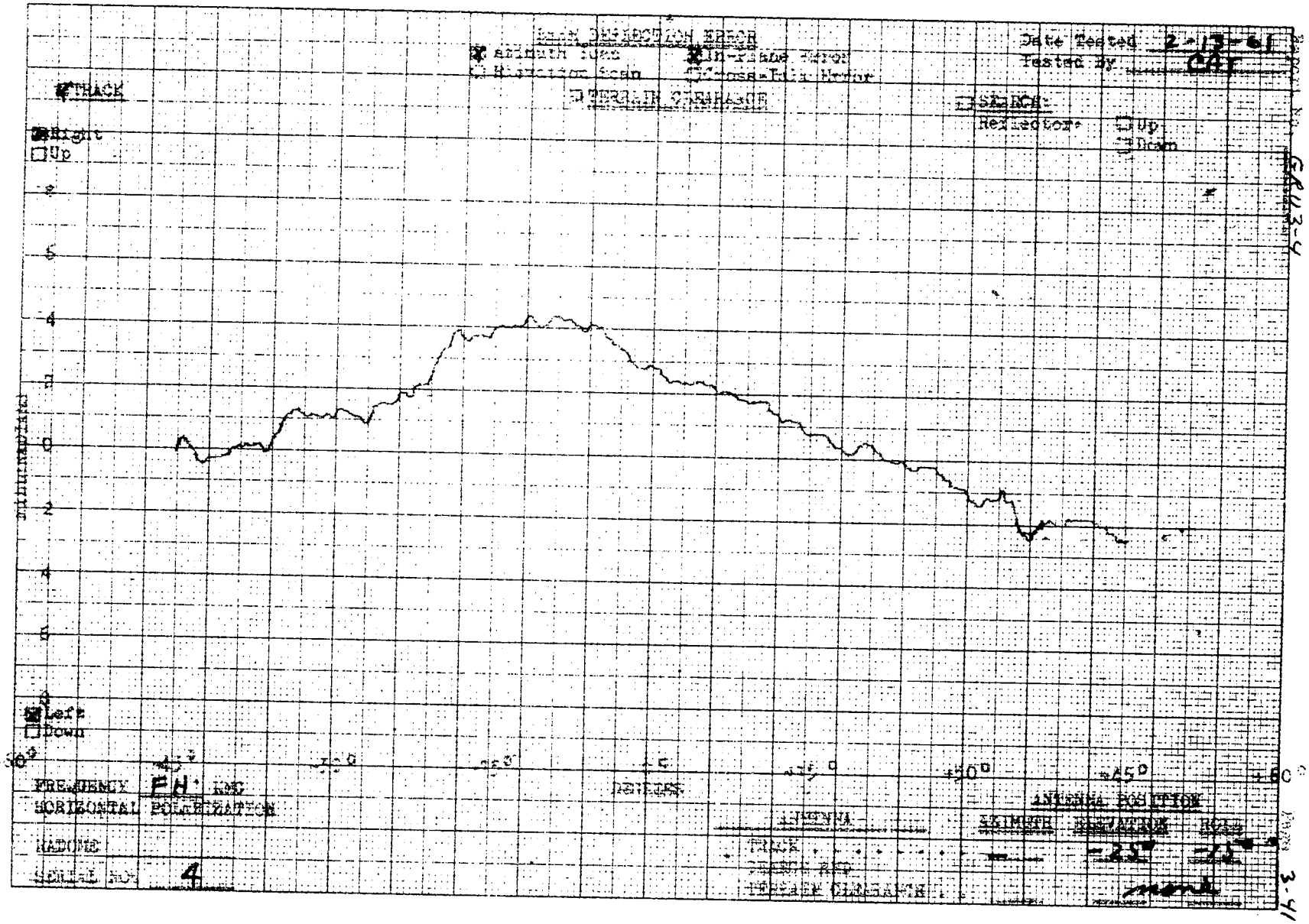

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Tilt-Plane Error
Cross-Talk Error
Date Tested 2-13-61
Tested By CRT
TRACK
TERRAIN CLEARANCE
SEARCH:
Reflector: Up
Down
Right
Up
Left
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FH KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
-3°
-45°
none
Page 3-36

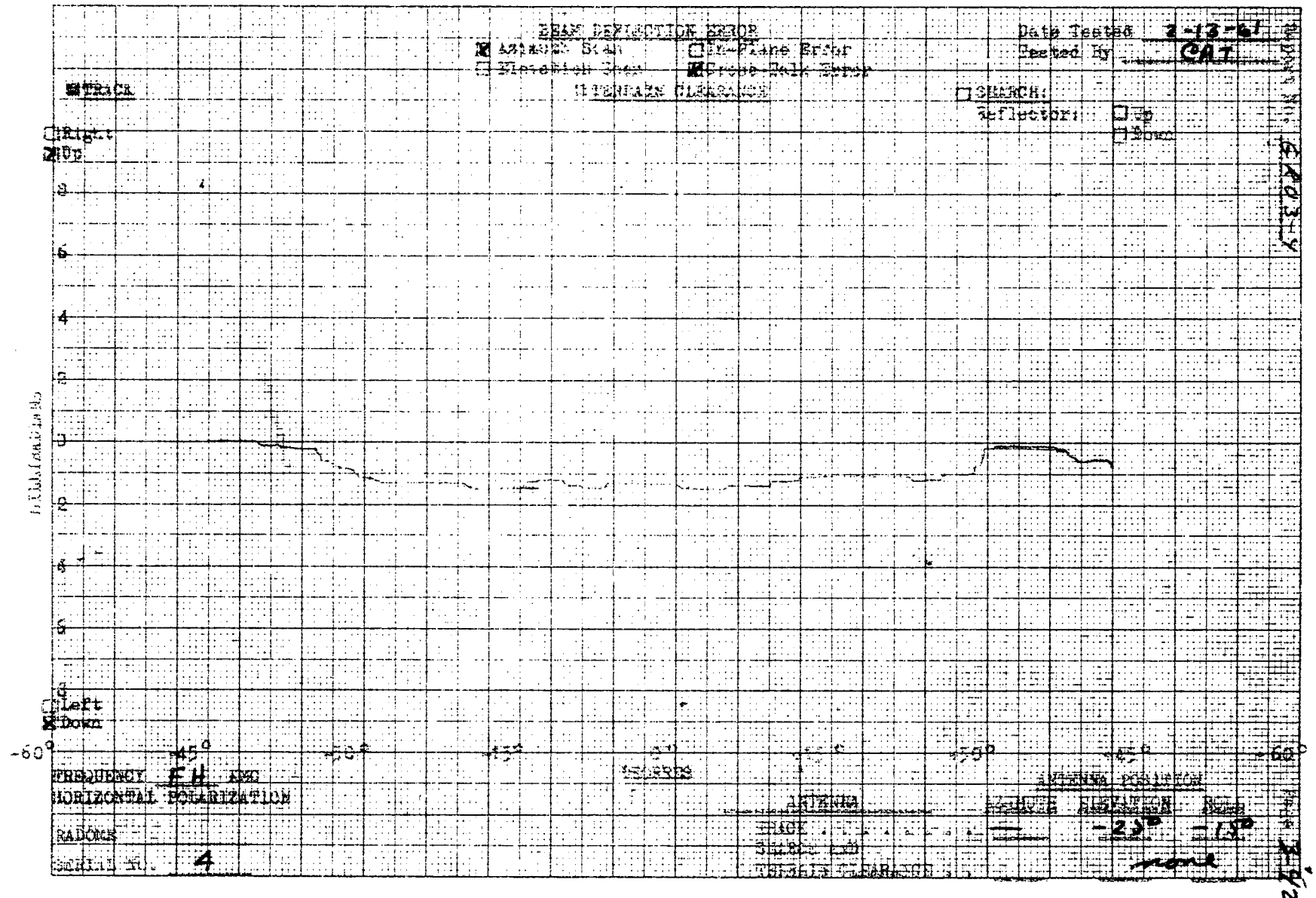

BEAM DEFLECTION ERROR
Azimuth Beam
X-Plane Error
Elevation Beam
Plane Talk Error
Date Tested 2-13-61
Tested By CDT
TRACK
Right
Up
SEARCH:
Deflector: Up
Down
3
2
1
0
1
2
3
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY EH MC
HORIZONTAL POLARIZATION
RANGE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° -13°
TRACK
Unit No. GRU3-4
Page 3-37

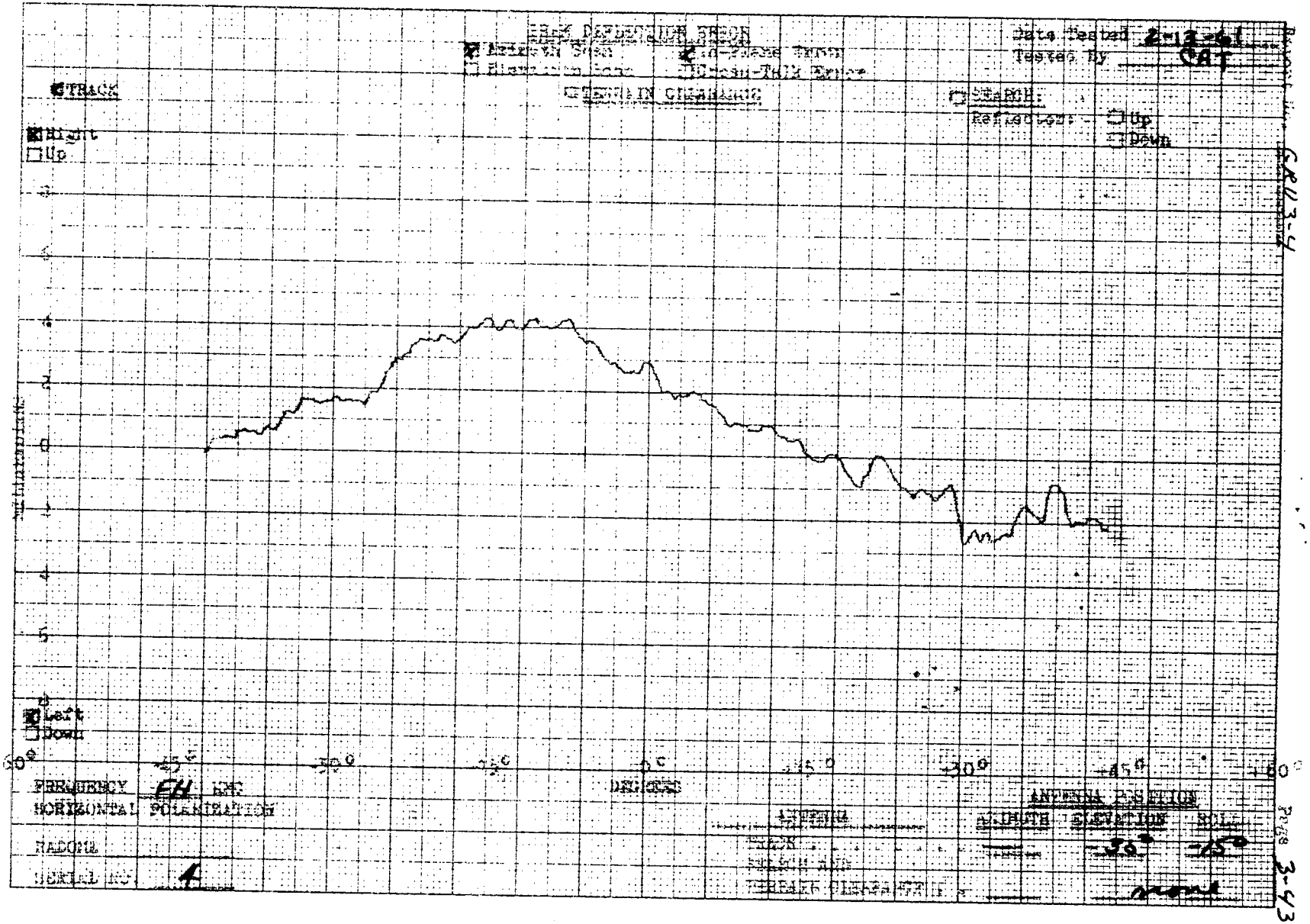

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
TERRAIN CLEARANCE
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5H MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° -25°
TRACK
SEARCH AND
TERRAIN CLEARANCE

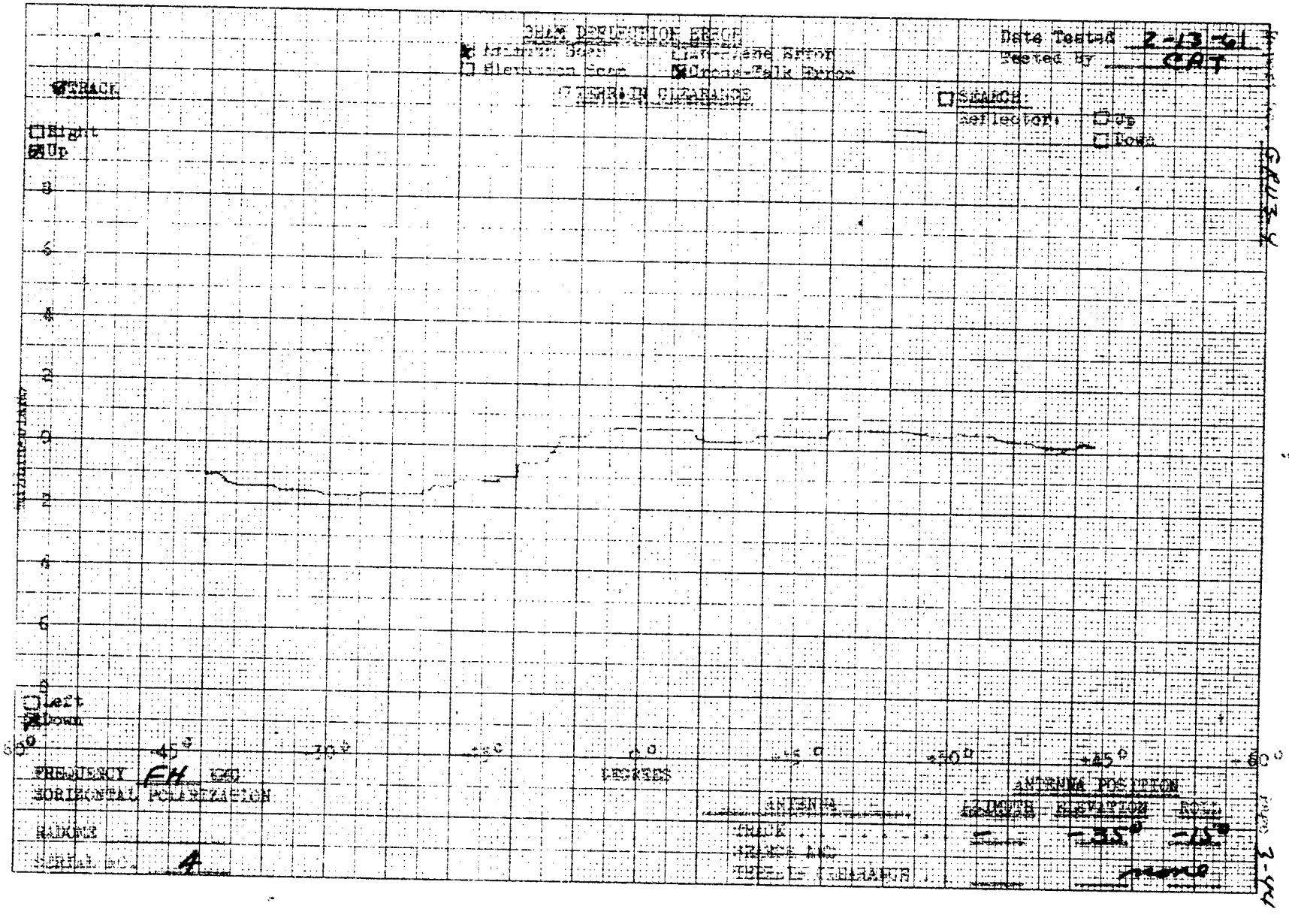

BEAM DEFLECTION ERROR
Azimuth Beam
Elevation Beam
Cross Talk Error
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
Data Tested 2-13-61
Tested By CAT
FREQUENCY FM MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
-45°
-15°
DEGREES

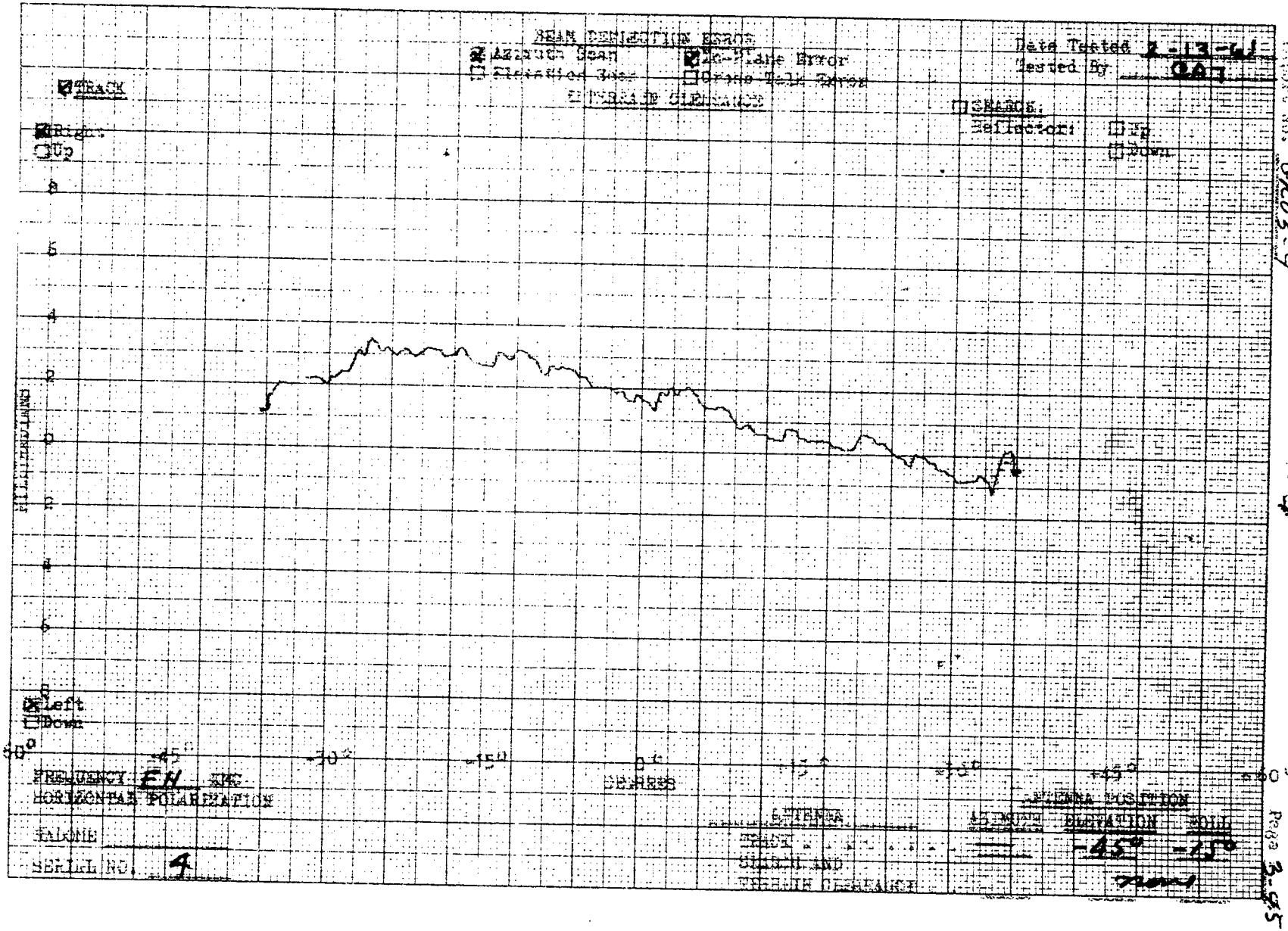

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Range
Antenna Error
Drone-Path Error
TERRAIN CLEARANCE
SEARCH
Data Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
FREQUENCY 5H MC
HORIZONTAL POLARIZATION
AIRCRAFT
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH ELEVATION
-15° -15°
-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES

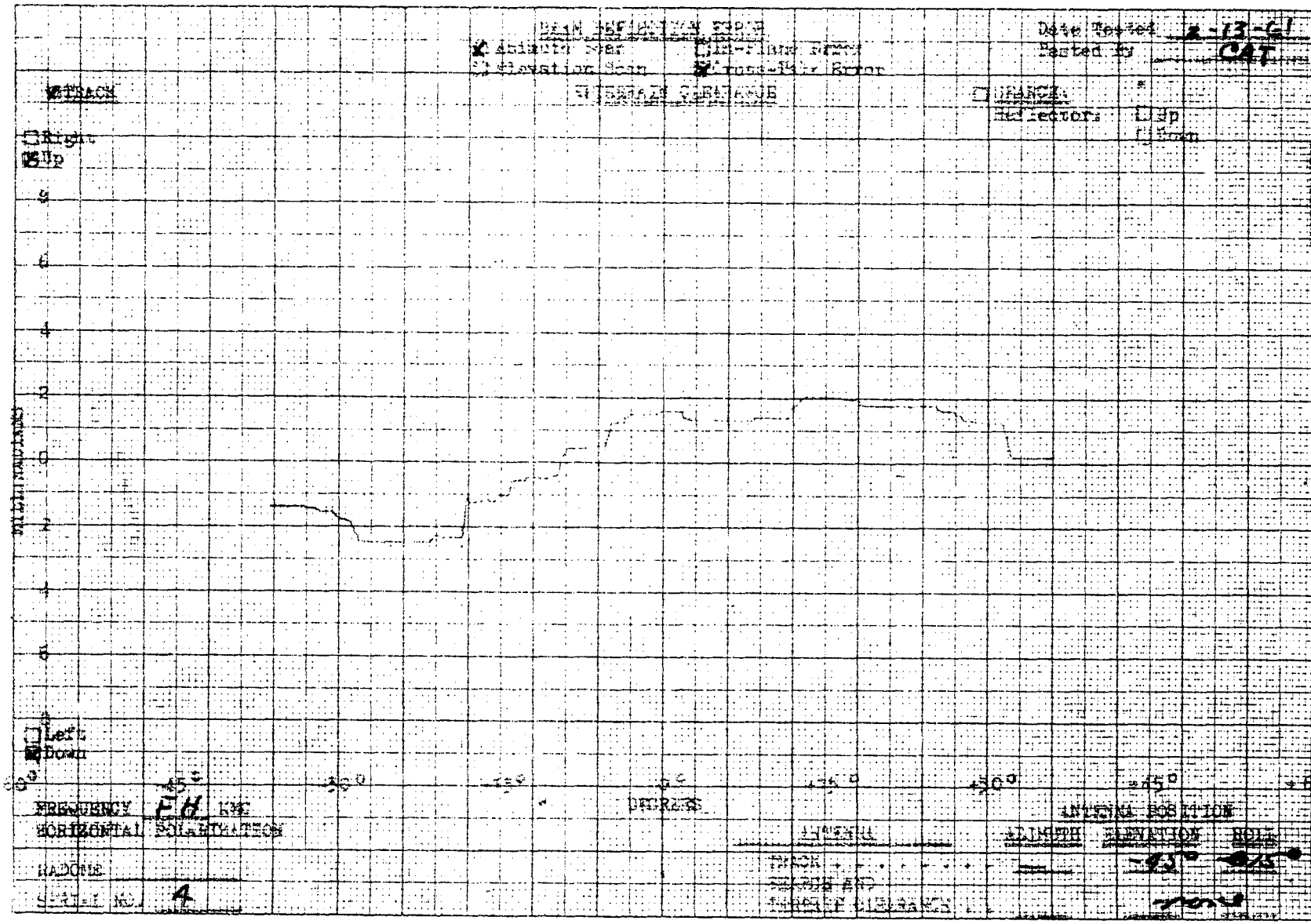

Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH
Reflector
Up
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
SCALE NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
-25°
-25°
3-41


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
E-Plane Error
Probe-Path Error
TERRAIN CLEARANCE
Date Tested 2-13-61
Tested By CAT
TRACK
SEARCH:
Reflector:
Right
Up
Left
Down
6
4
2
0
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SCAN
SEARCH PATTERN
ANTENNA POSITION
-2.5°
-1.5°
none


Data Tested 2-13-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflection
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 6H MC
HORIZONTAL POLARIZATION
RADOME
MODEL NO. 4
ANTENNA
AZIMUTH
ELEVATION
ROLL
-30°
-45°
0°
3-43


BEAM DEFLECTION ERROR
Date Tested 2-13-61
Beeved By CAT
TRACK
Right
Up
SEARCH:
Left
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RANGE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-35°
-15°
CAT 3-61

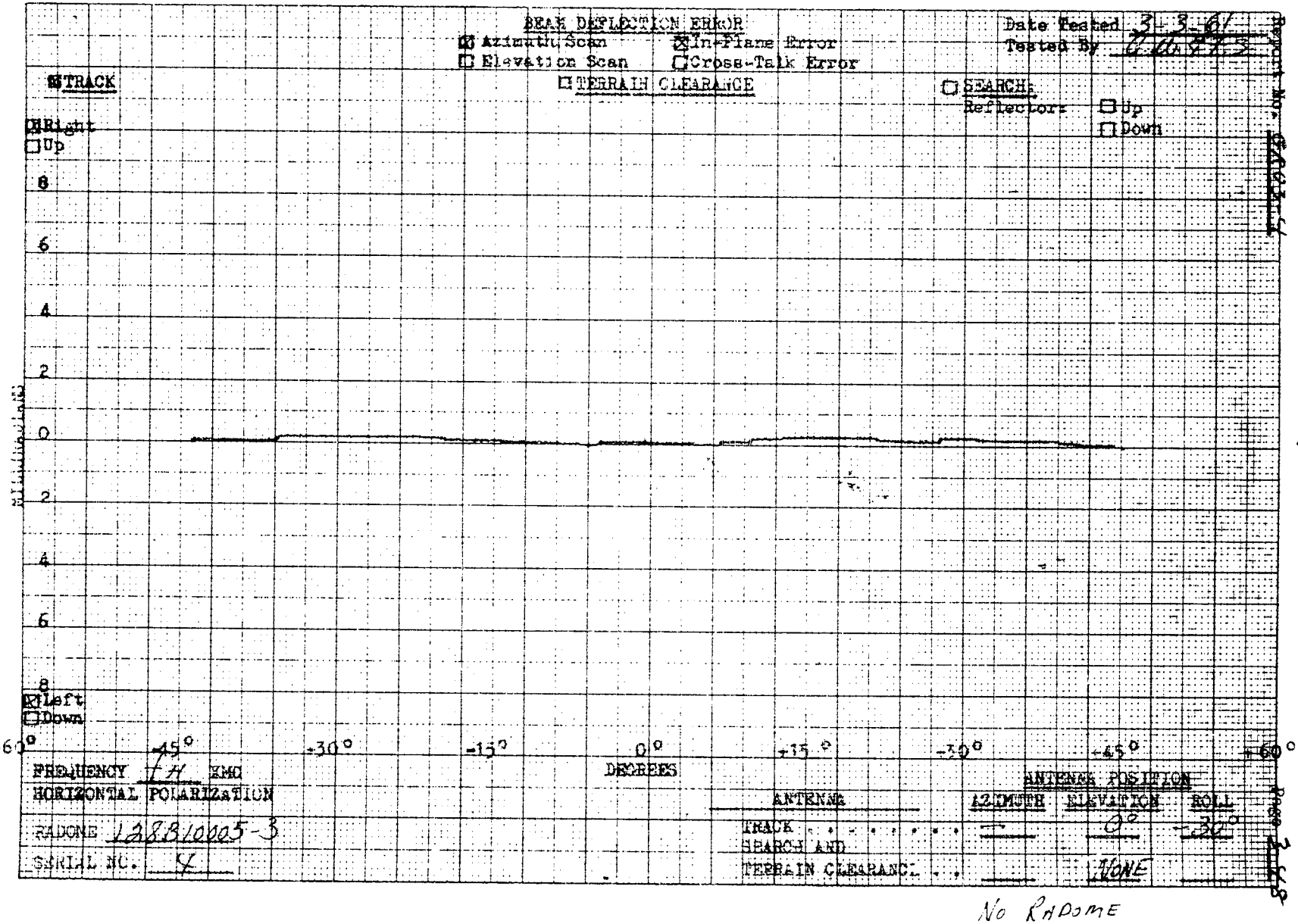

BEAM DEFLECTION ERROR
Azimuth Beam
Elevation Beam
X-Plane Error
Cross-Talk Error
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
Date Tested 2-13-64
Tested By
Report No. GEU3-4
FREQUENCY EH MC
HORIZONTAL POLARIZATION
FALCONE
SERIAL NO. 4
DEGREES
ANTENNA POSITION
ELEVATION
-45°
-15°
Page 3-45

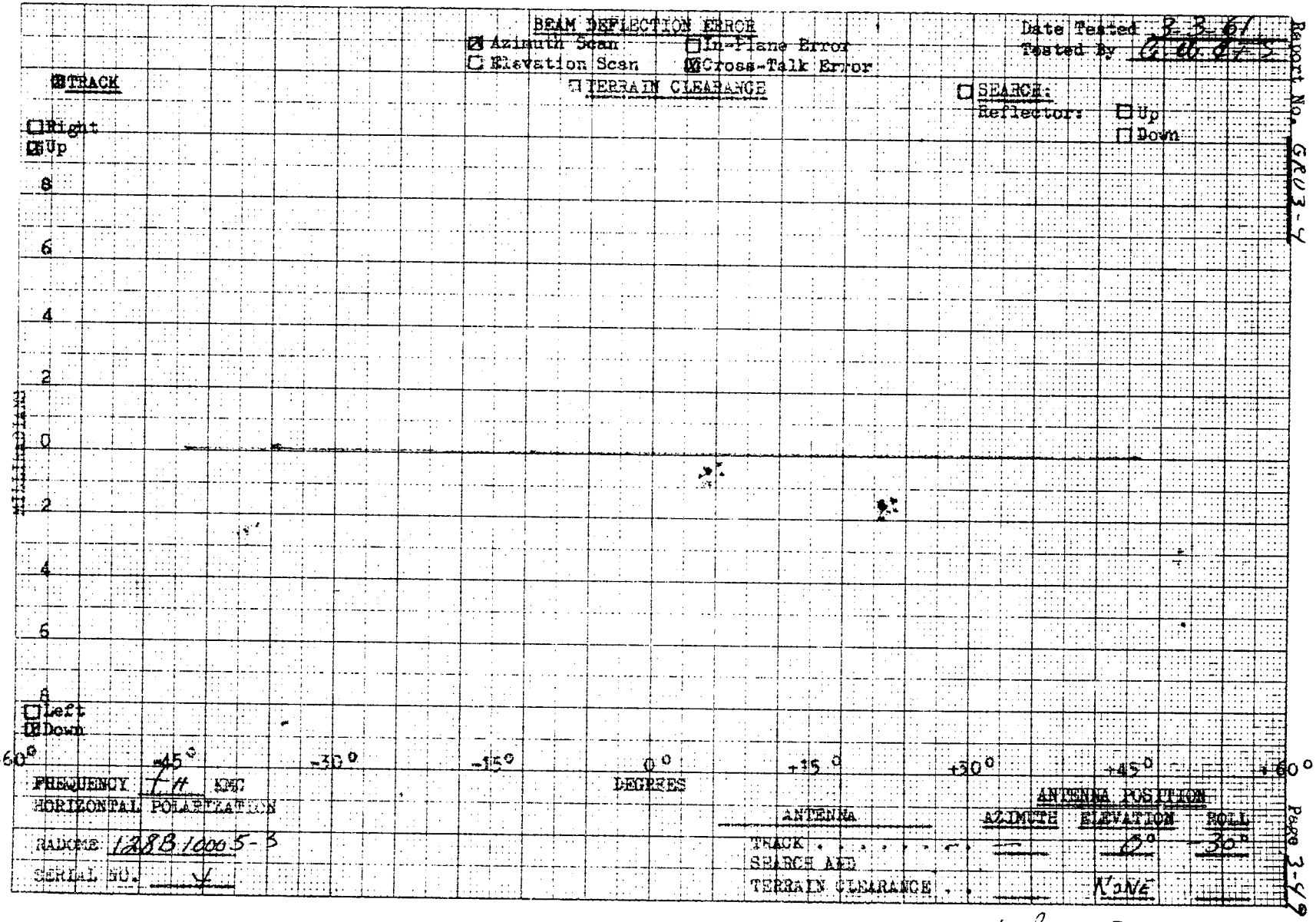

Azimuth Beam
Elevation Beam
Sum-Plane Beam
Tunnel-Diode Beam
TRACK
Right
Up
Left
Down
Reflector
Up
Down
Date Tested 2-13-61
Tested By CAT
DEGREES
FREQUENCY 5670 MC
HORIZONTAL POLARIZATION
RADOME
DUPLEXER NO. 4
AZIMUTH ELEVATION ROLL
-45° -45°
+45° +45°
PAGE 3-46

SECTION 31

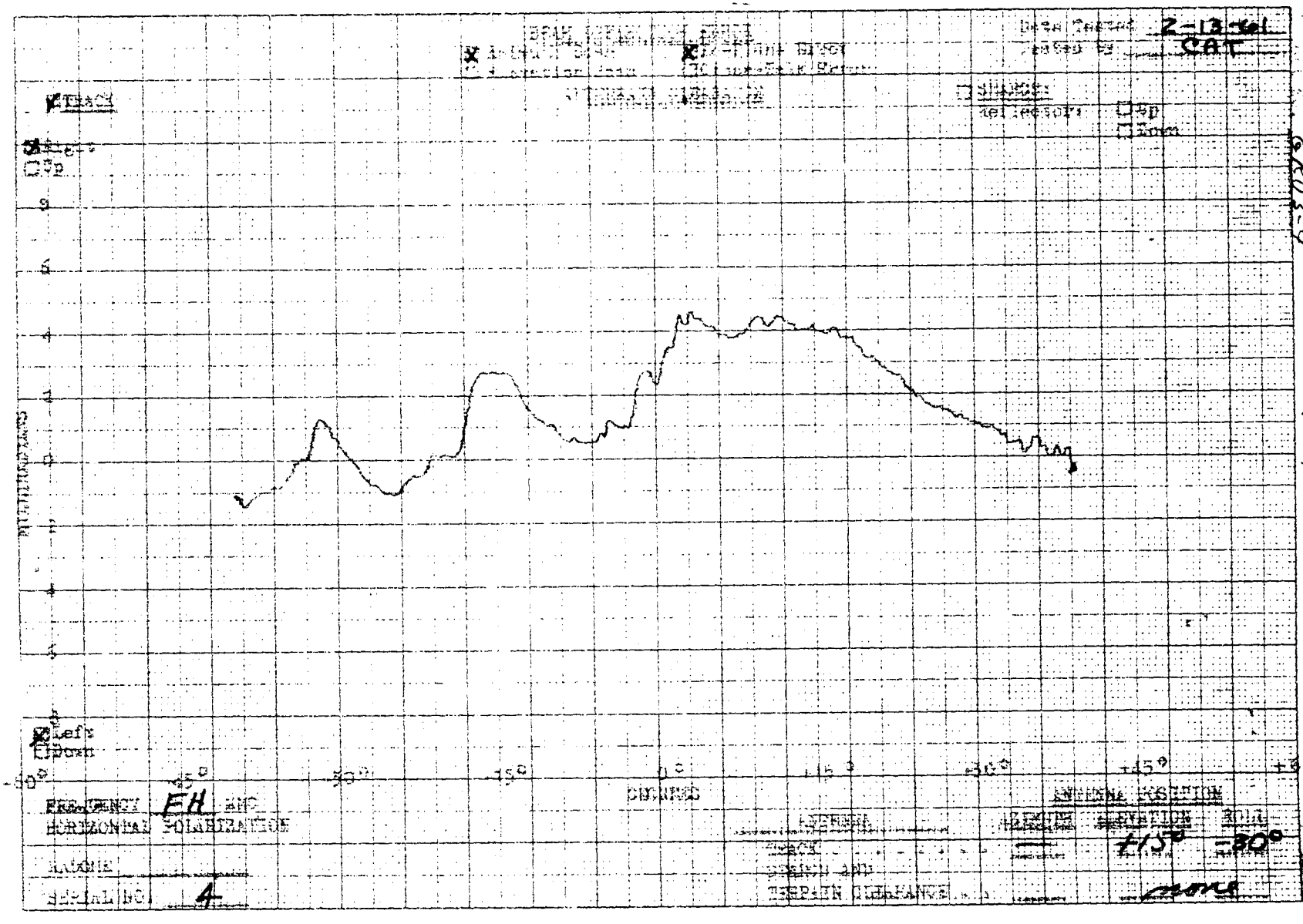
TRACK BORESIGHT ERROR

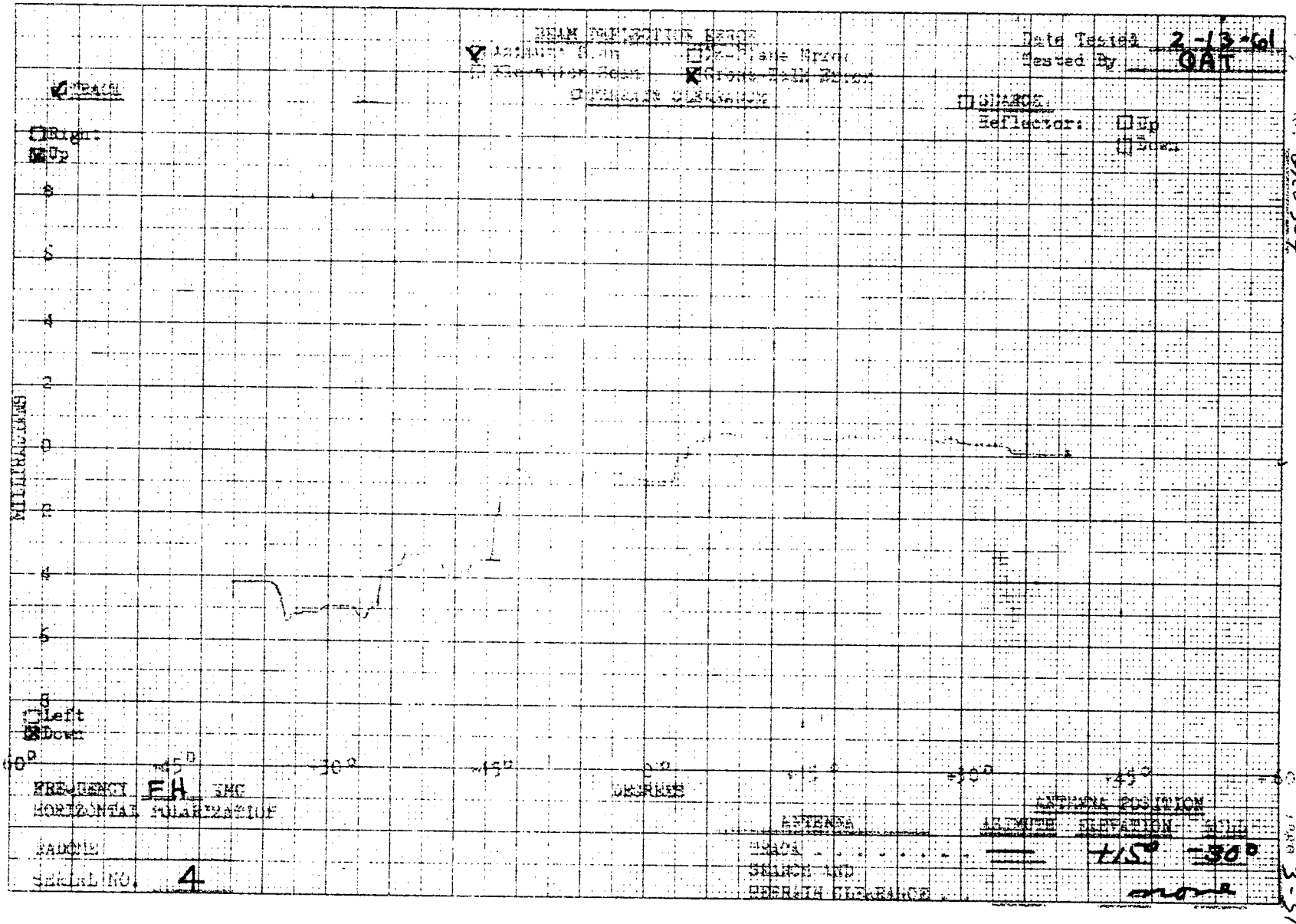
F_H @ -30° ROLL

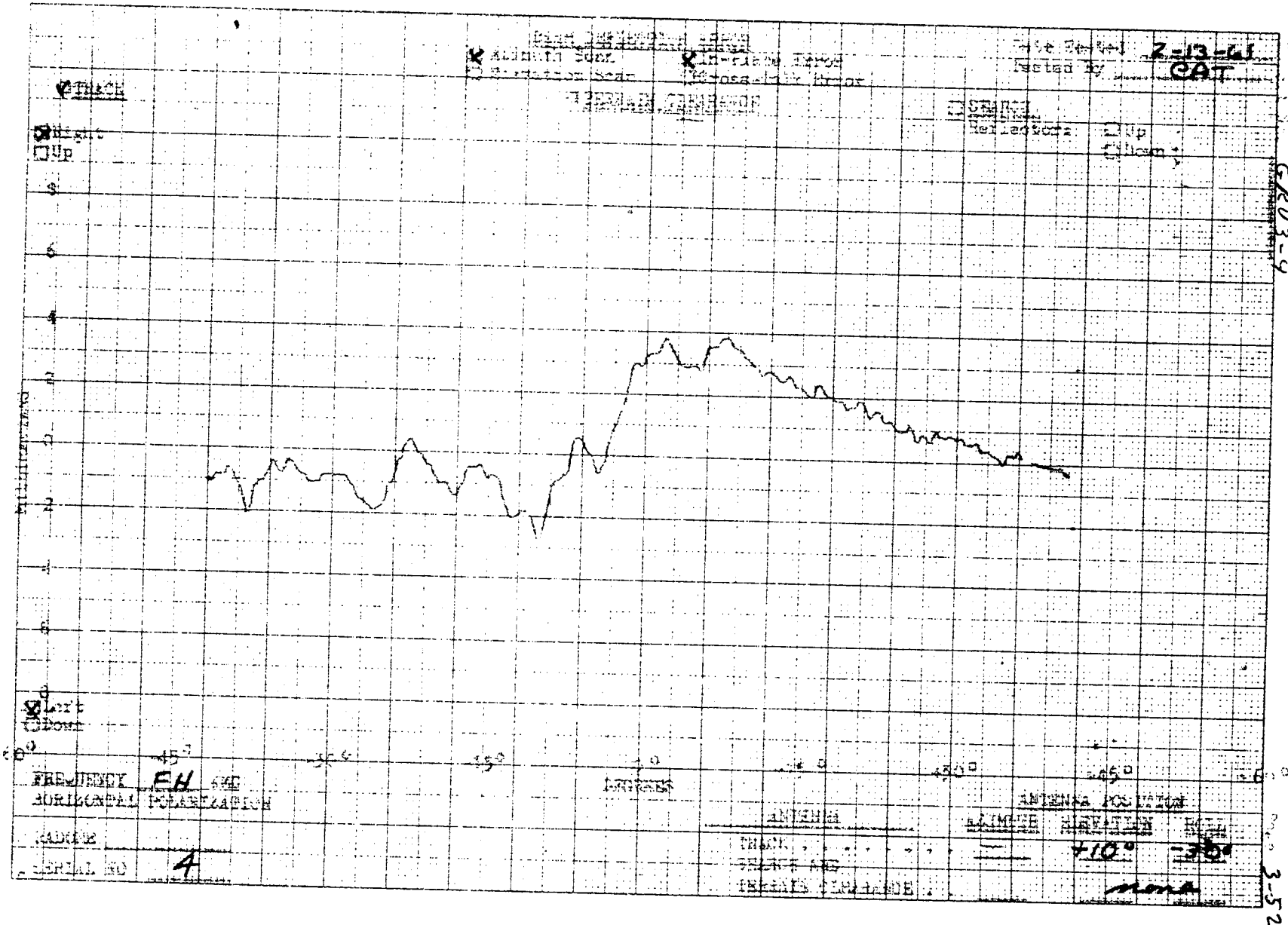

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
SEARCH
Reflector
Up
Down
Date Tested 3-3-61
Tested By
Report No.
TRACK
Right
Up
Left
Down
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 14 KMC
HORIZONTAL POLARIZATION
RADOME 1288/0005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
-30°
NONE
No RADOME

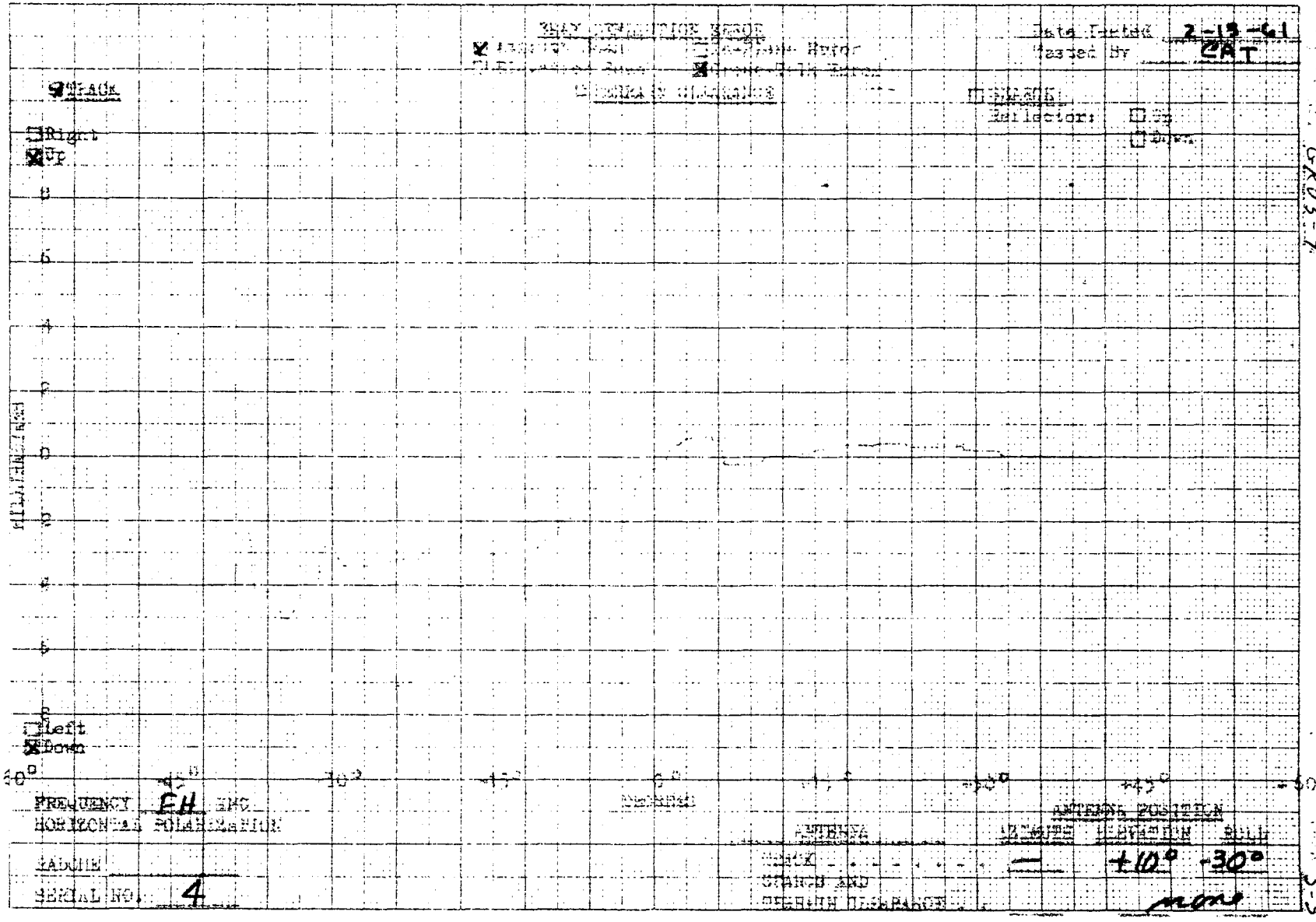

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-3-61
Tested By C.W.A.F.S.
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Report No. GRU3-4
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+20°
+45°
+60°
DEGREES
FREQUENCY 7H MC
HORIZONTAL POLARIZATION
RADOME 1288 1000 5-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
—
0°
-30°
NONE
Page 3-49

No RADOME


2-13-61
CAT
FREQUENCY EH MC
HORIZONTAL POLARIZATION
SERIAL NO. 4
+15° -30°
3-50

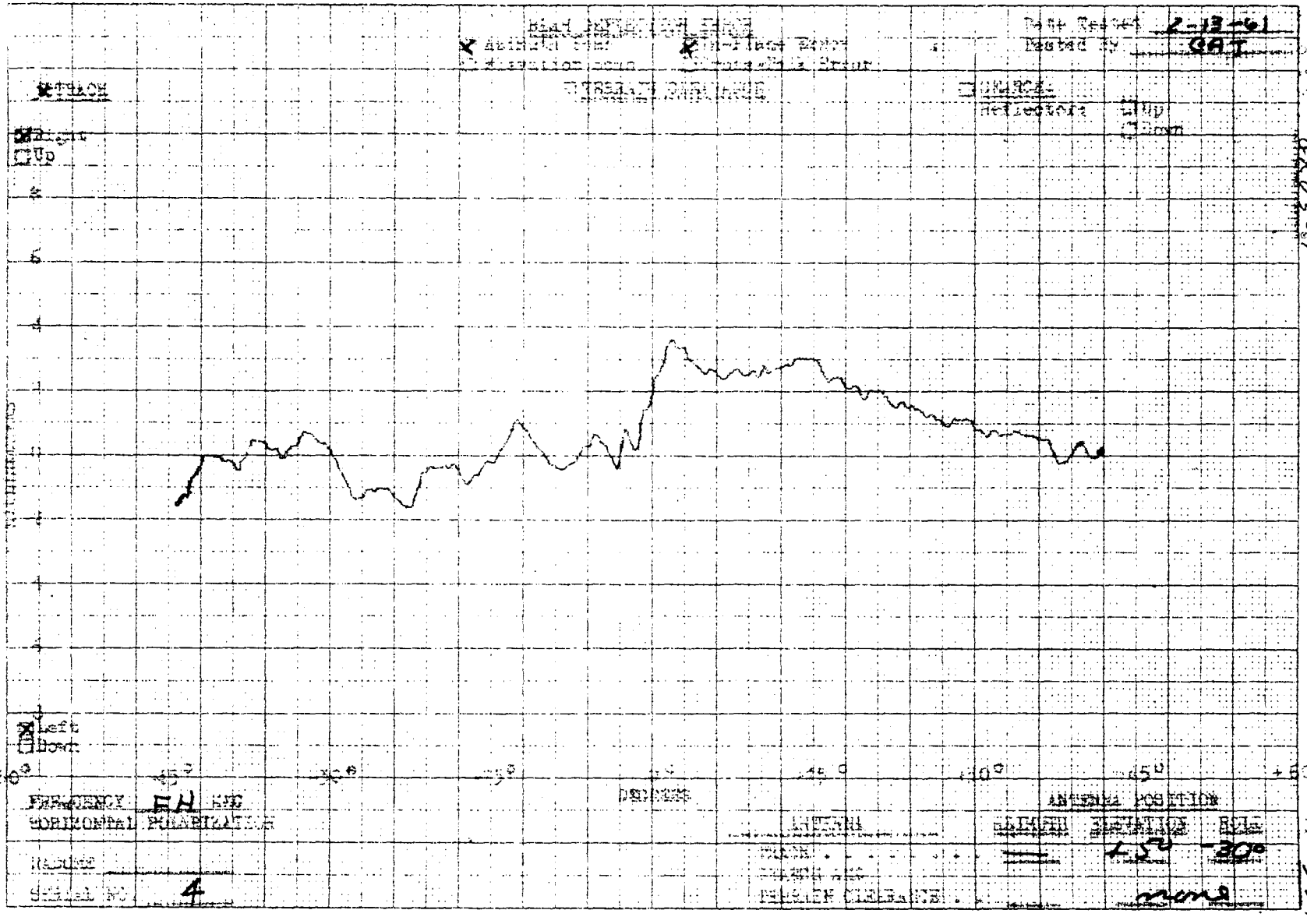

Date Tested 2-13-61
Tested By QAT
Reflector: Up
Down
MILLIAMPERES
Right
Up
Left
Down
-90°
-45°
-30°
0°
DEGREES
+45°
+90°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
+45°
-30°
none
GEU3-4
3-51

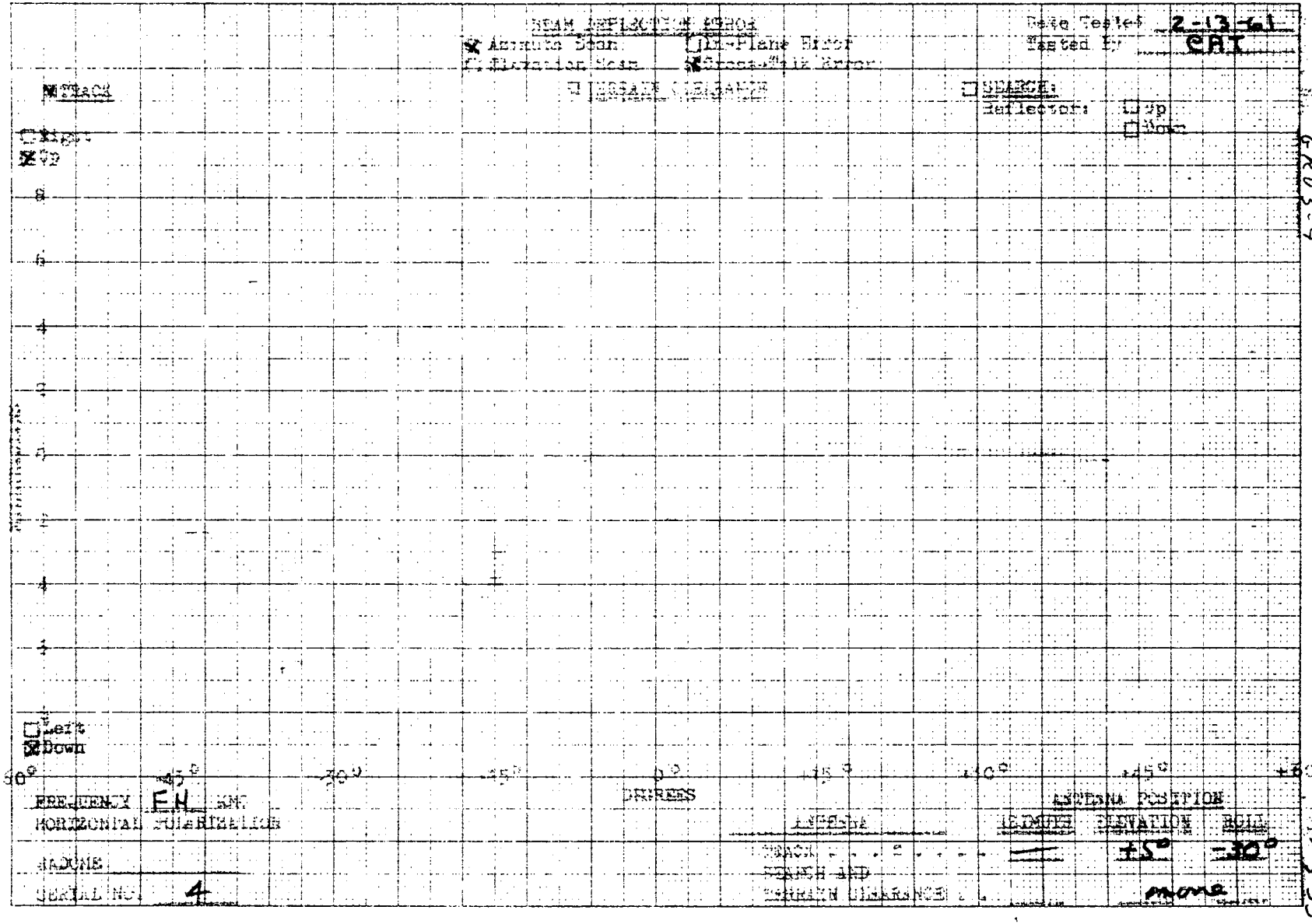

Date Tested 2-13-61
Tested By CAT
Azimuth Scan
Elevation Scan
In-Plane Input
Cross-Plane Input
Track
Right
Up
Down
Left
Up
Down
Normal
Reflector
Up
Down
Left
Right
FREQUENCY 5H MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO 4
ANTENNA
TRACK
SEARCH AND
TRACK SIMULATOR
ANTENNA POSITION
AZIMUTH
ELEVATION
+10°
-36°
none
GRU3-4
3-52

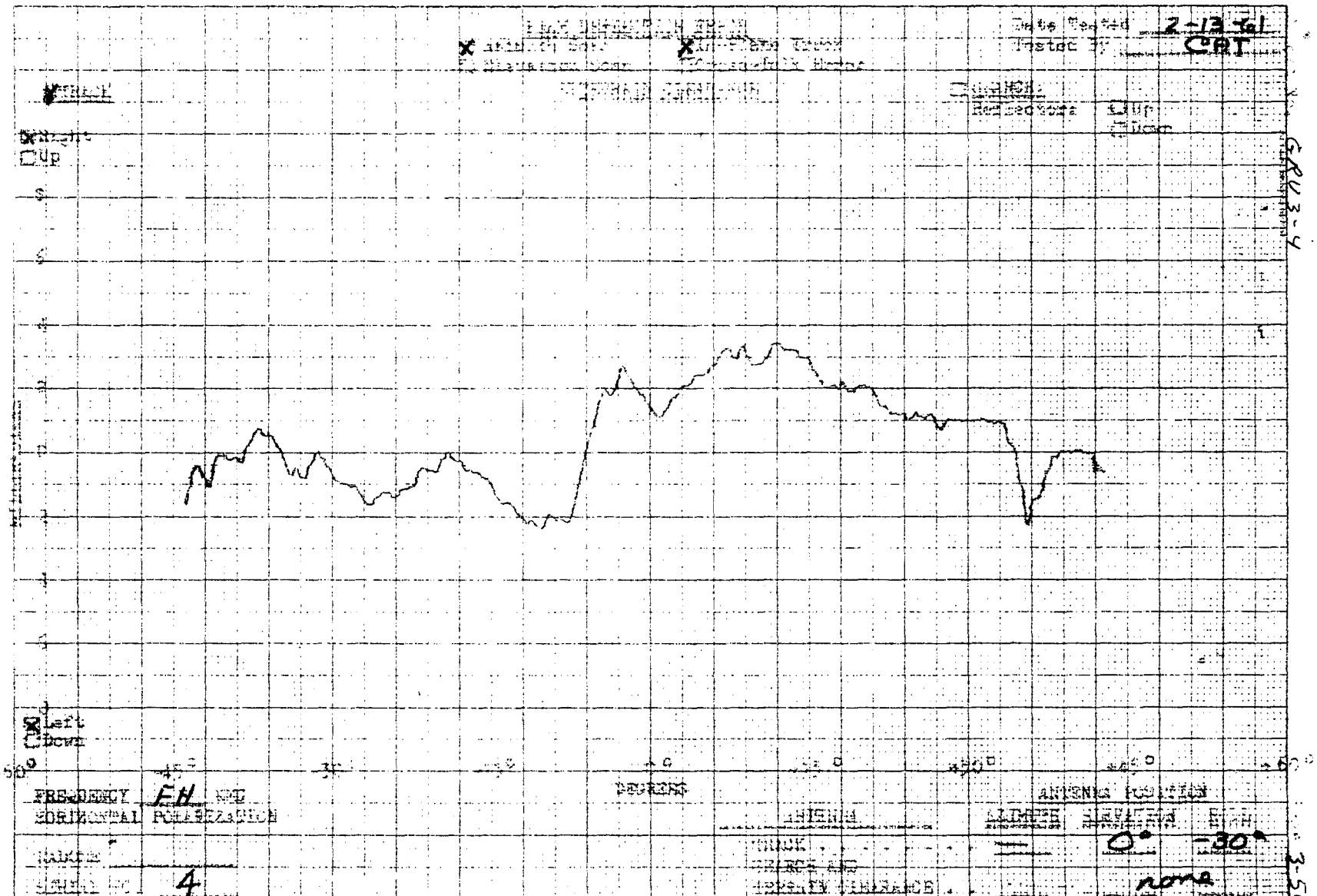

Data Tested 2-13-61
Tested By CAT
Track
Right
Up
Left
Down
-90°
-45°
-10°
-5°
0°
+5°
+10°
+45°
+90°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
CABLE
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
BORE
+10°
-30°
none

GRU3-4

3-53

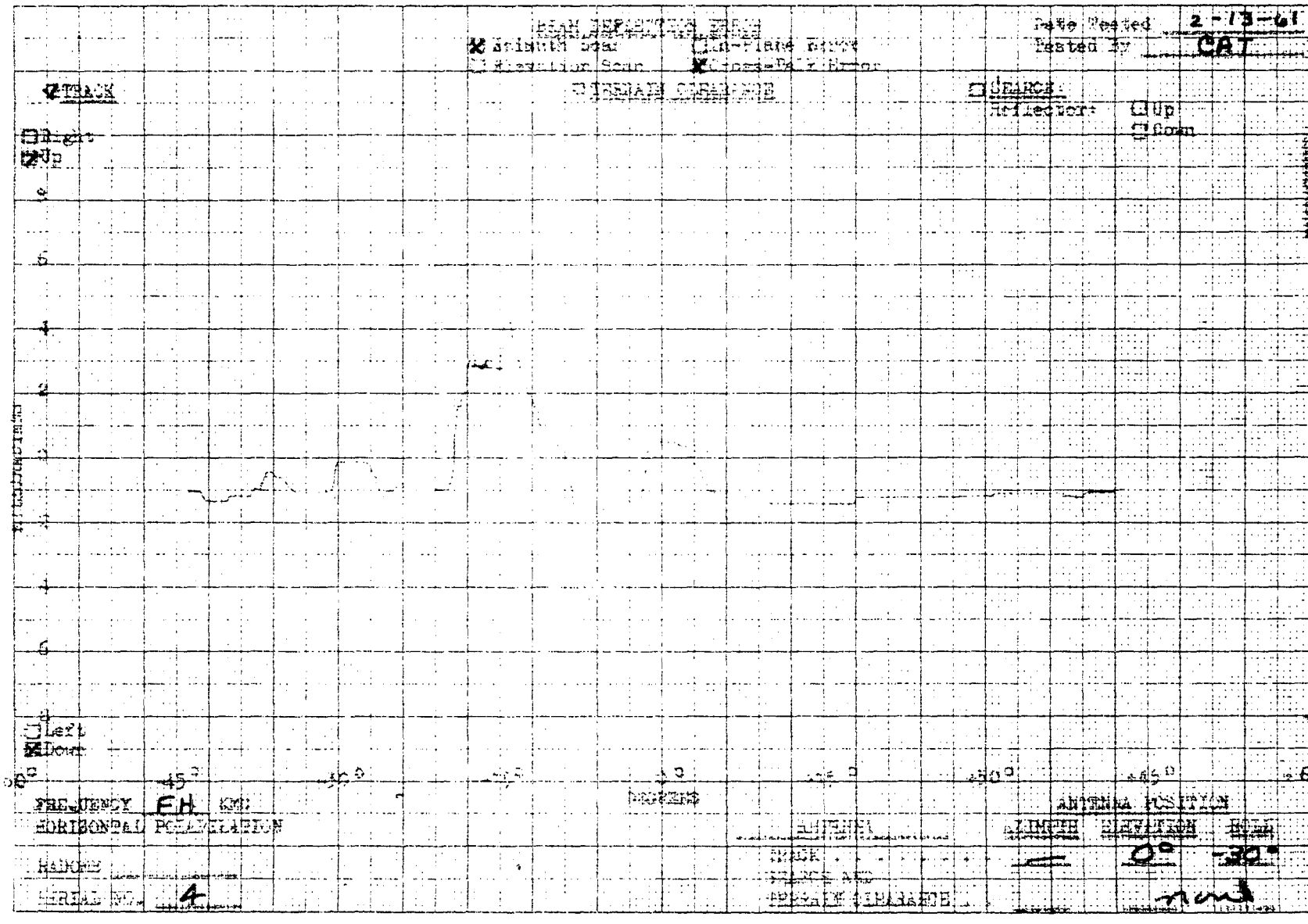

Date Tested 2-13-61
Tested By GRT
TRACK
Right
Up
Left
Down
SOURCE
Reference
Up
Down
DEGREES
FREQUENCY 5H MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
RANGE
+52
-30
SERIAL NO 4
GRT 3-54
354

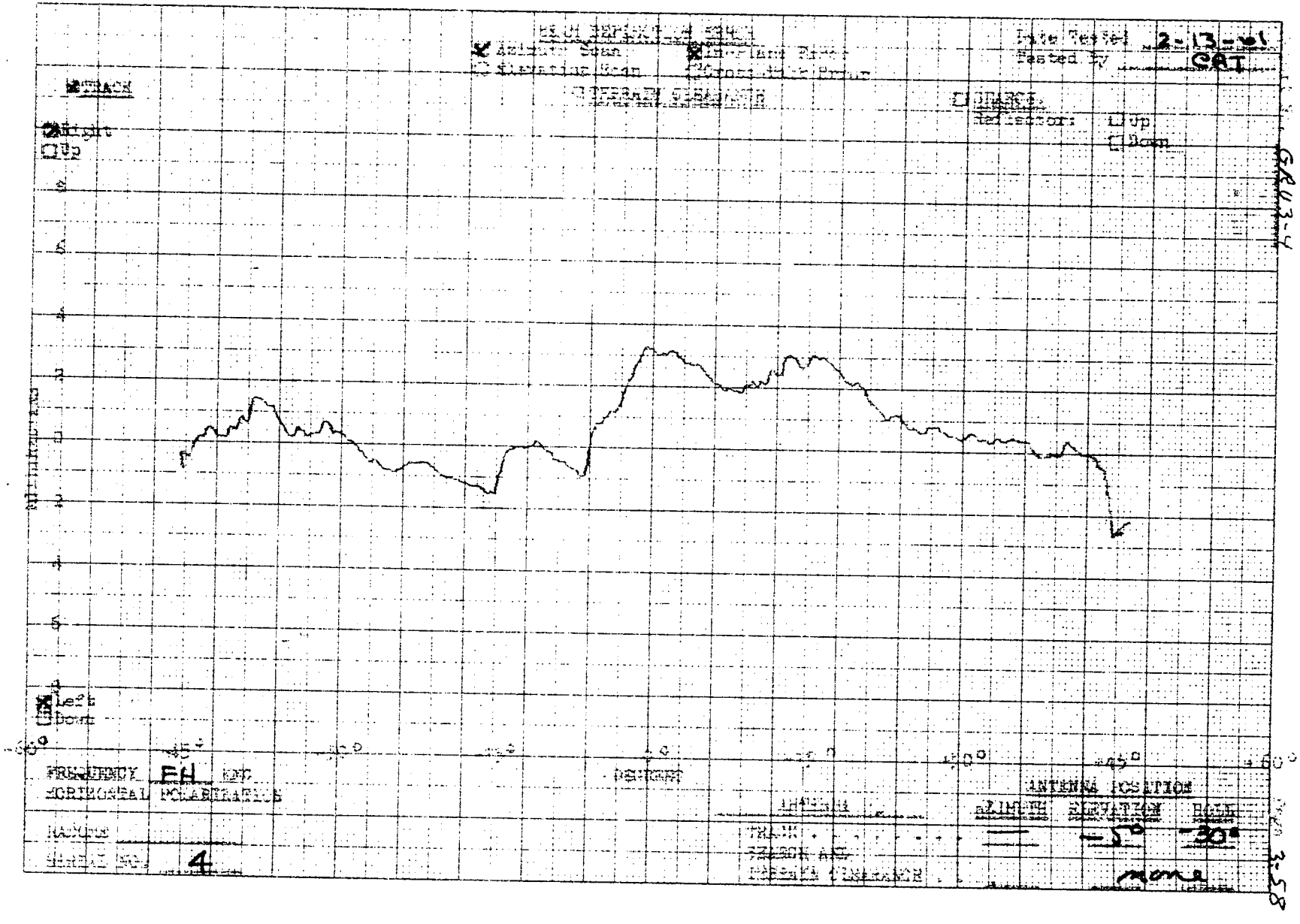

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Plane Error
Date Tested 2-13-81
Tested By CAT
TRACK
BEACON
Reflector: Up
Down
Left
Down
-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES
FREQUENCY FM MHz
HORIZONTAL POLARIZATION
RADOME
SCROLL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
BEACON
+5° -30°
MONO
GRU3-4
3-55

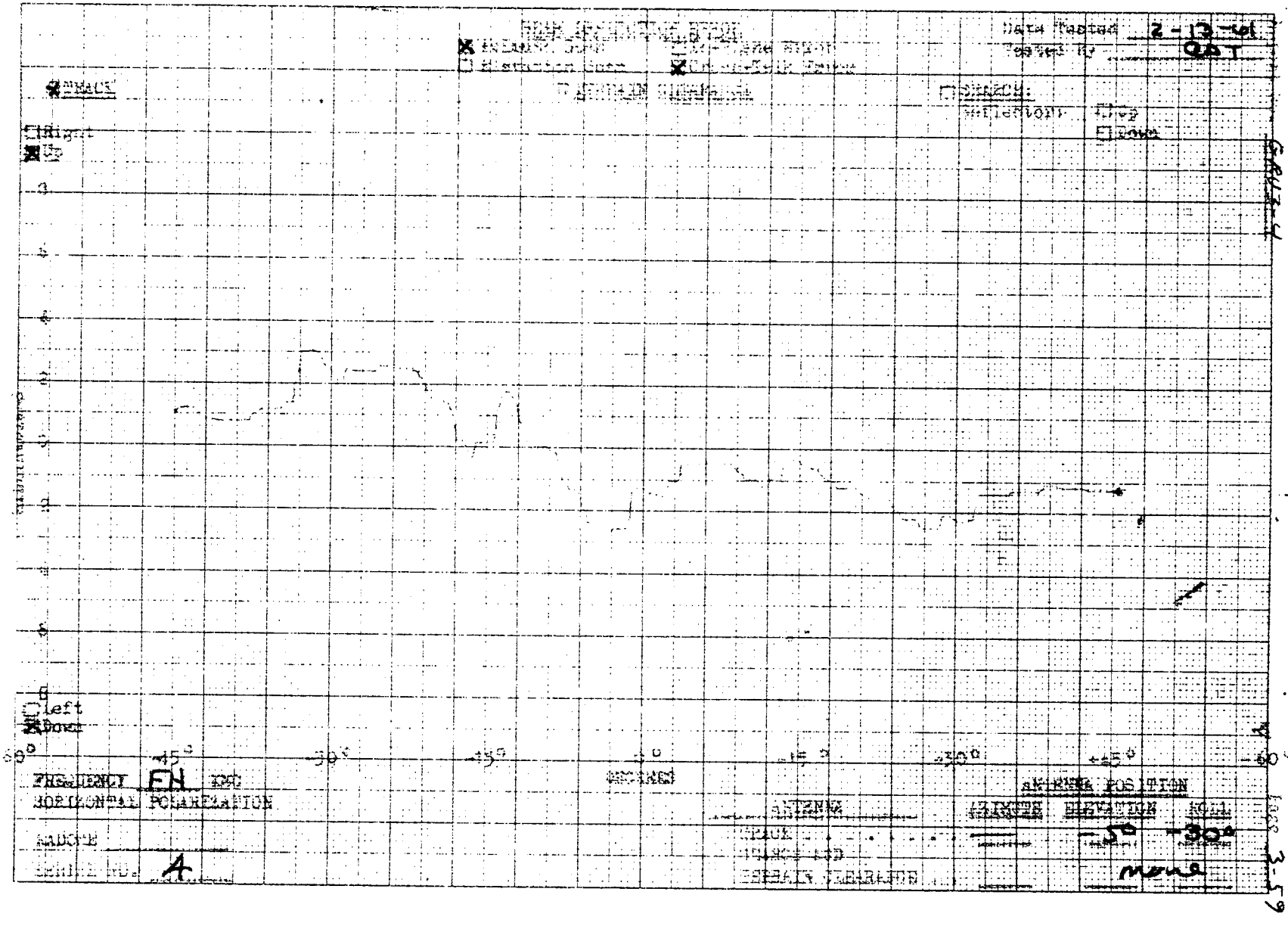

Date Tested 2-13-81
Tested By CRT
Right
Up
Left
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
ANTENNA HEIGHT
ANTENNA ELEVATION
0°
-30°
none
4

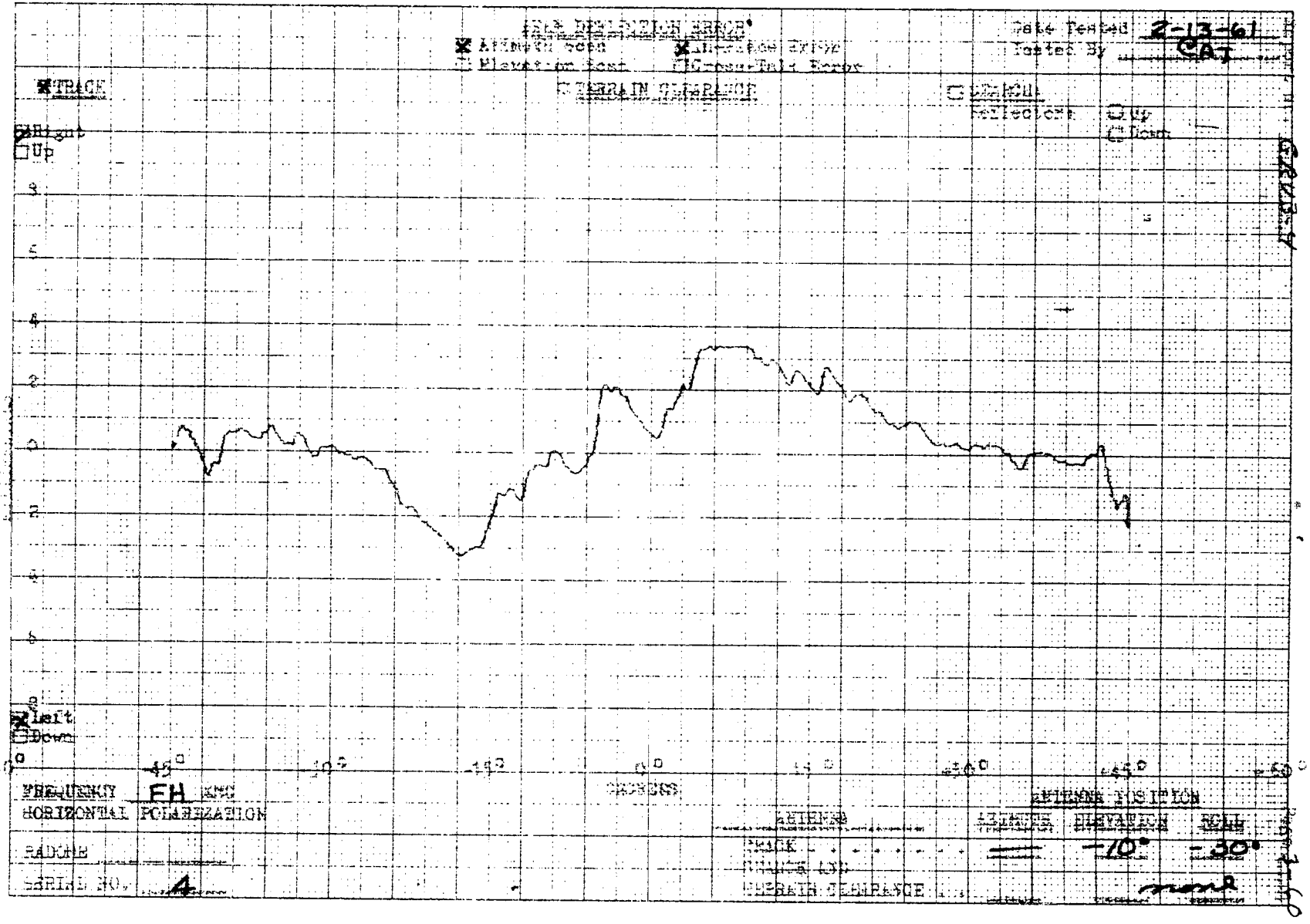
GRU3-4

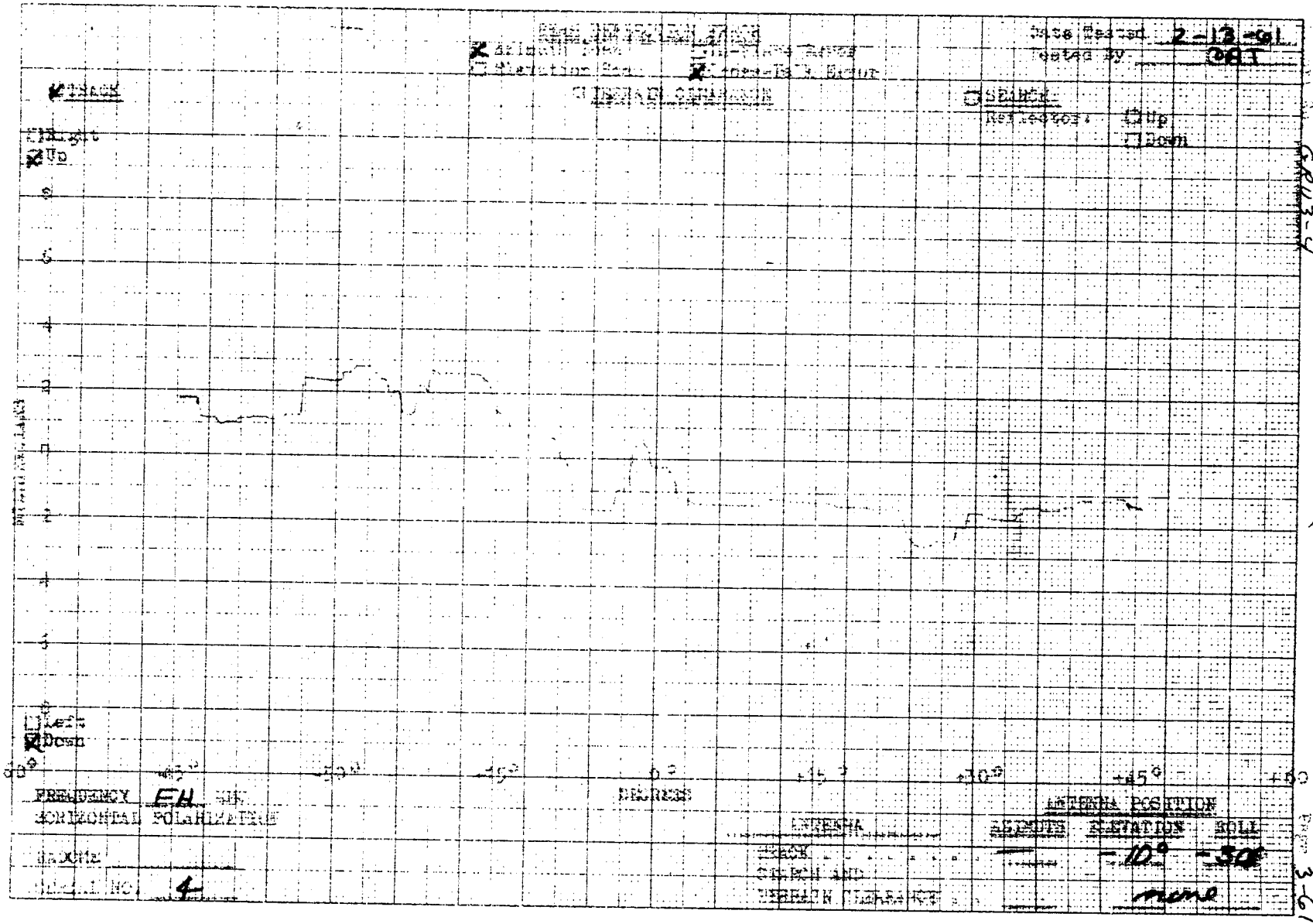
3-56

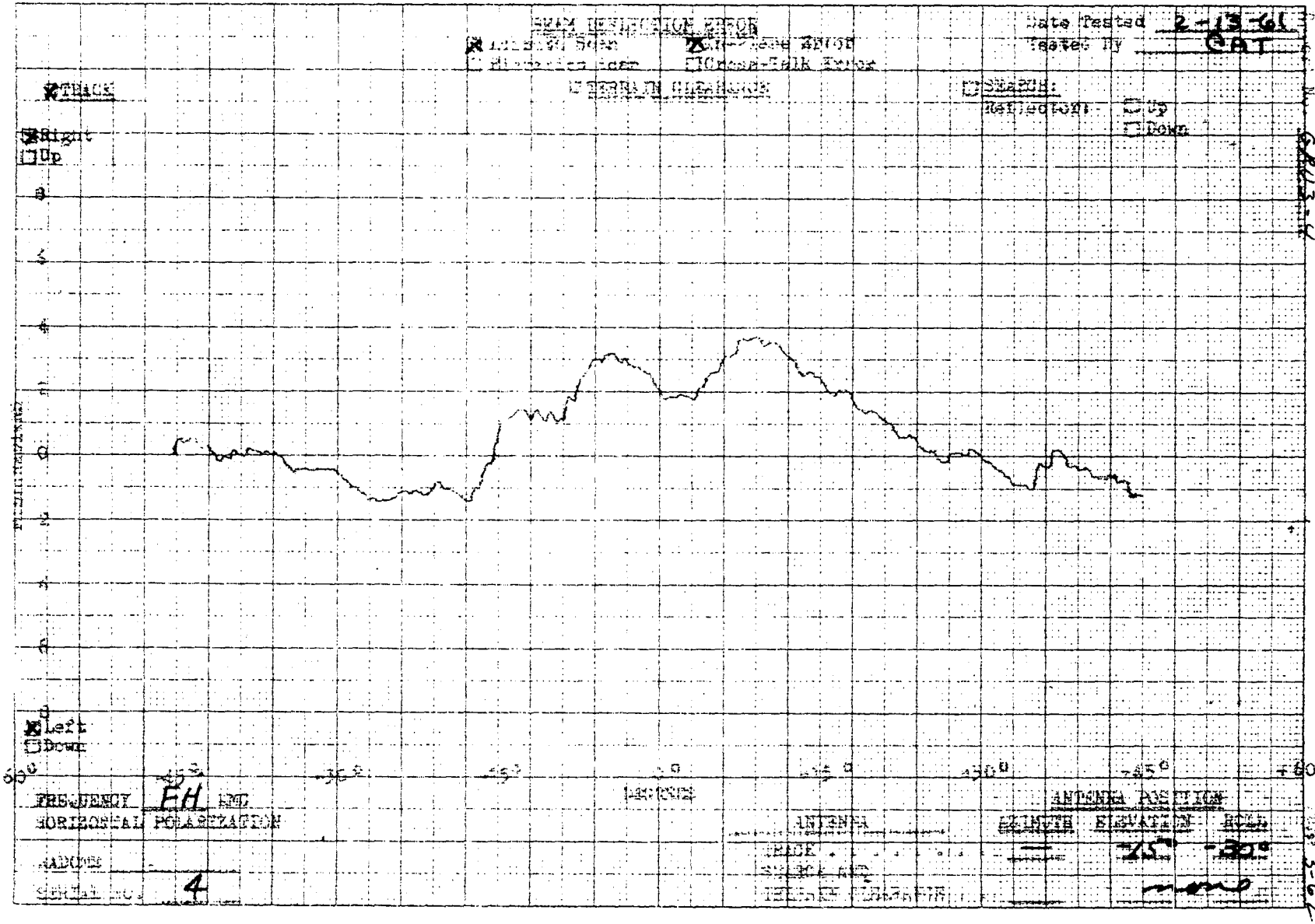

Date Tested 2-13-61
Tested By CAT
Azimuth Scan
Cross-Polar Error
TRACK
Right
Up
Left
Down
SOURCE
Reflector
Up
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
-30°
SERIAL NO. 4

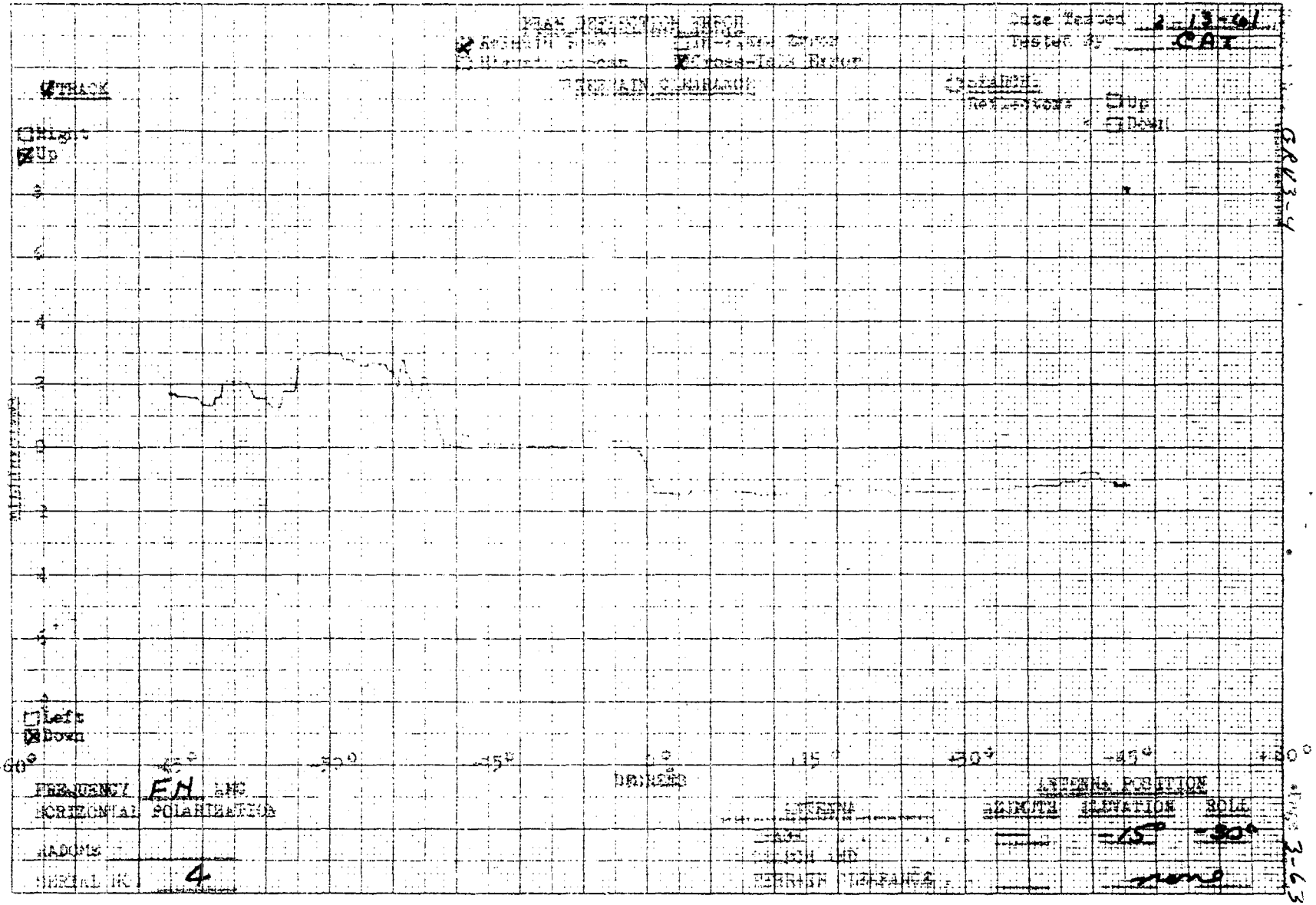

Date Tested 2-13-81
Tested By CAT
TRACK
Right
Up
Left
Down
DISTANCE
Reflectors: Up
Down
FREQUENCY EH MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH ELEVATION HGHT
-5° -30°
4
GR43-4

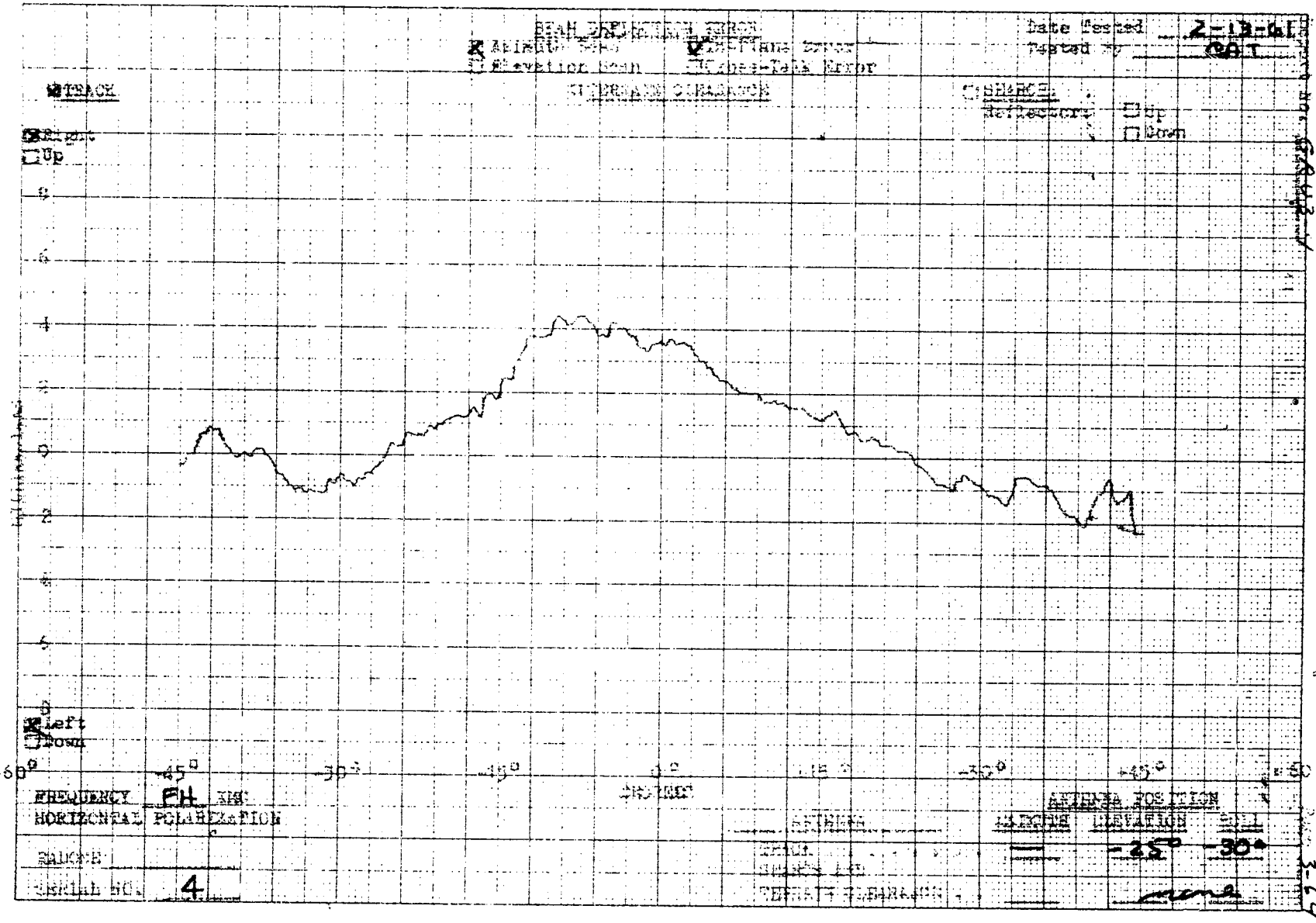

Data Tested 2-13-56
Tested By QAT
Right
Up
Left
Down
-90°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+90°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-30°
+30°
none
Figure 3-59

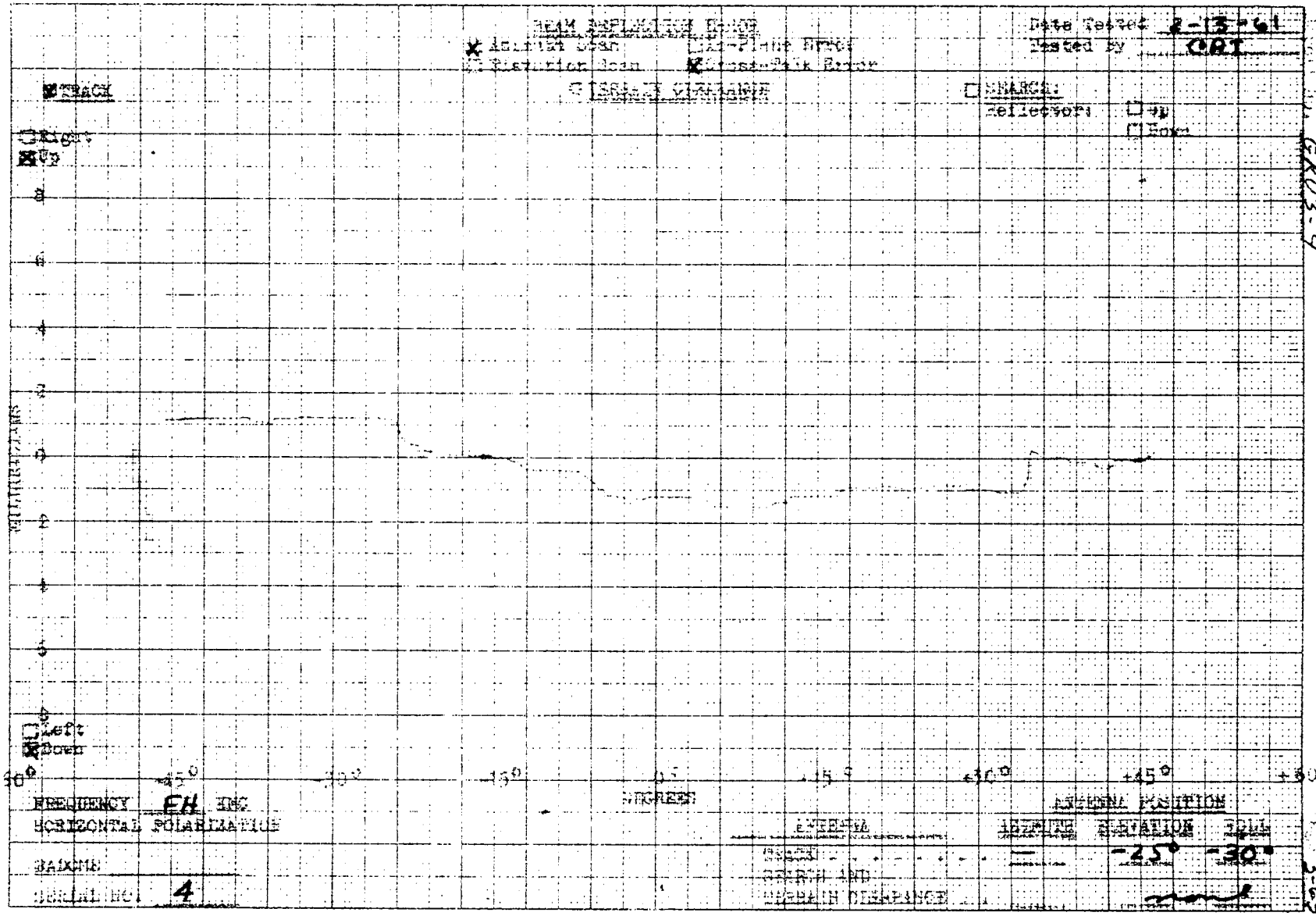

Azimuth Scan
Elevation Scan
TRACK
Right
Up
Left
Down
Date Tested 2-13-61
Tested By CAT
Reflector
Up
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
ANTENNA POSITION
AZIMUTH
ELEVATION
SCAN
-10°
-30°

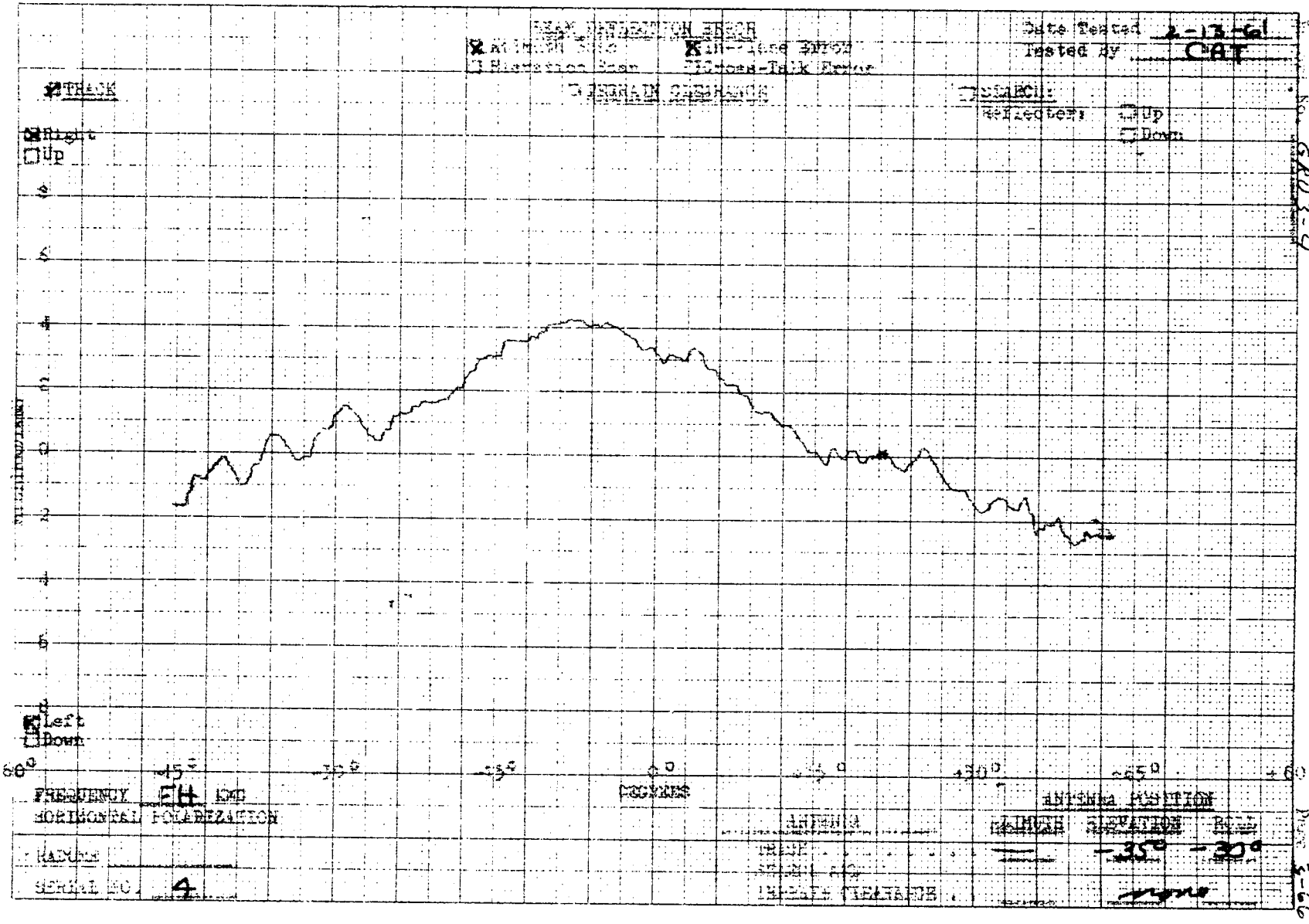

Date Tested 2-13-61
Tested By CRT
Track
Right
Up
Left
Down
Beamer
Reflectors
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FH MC
HORIZONTAL POLARIZATION
Channel No. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° -30°
none
3-61

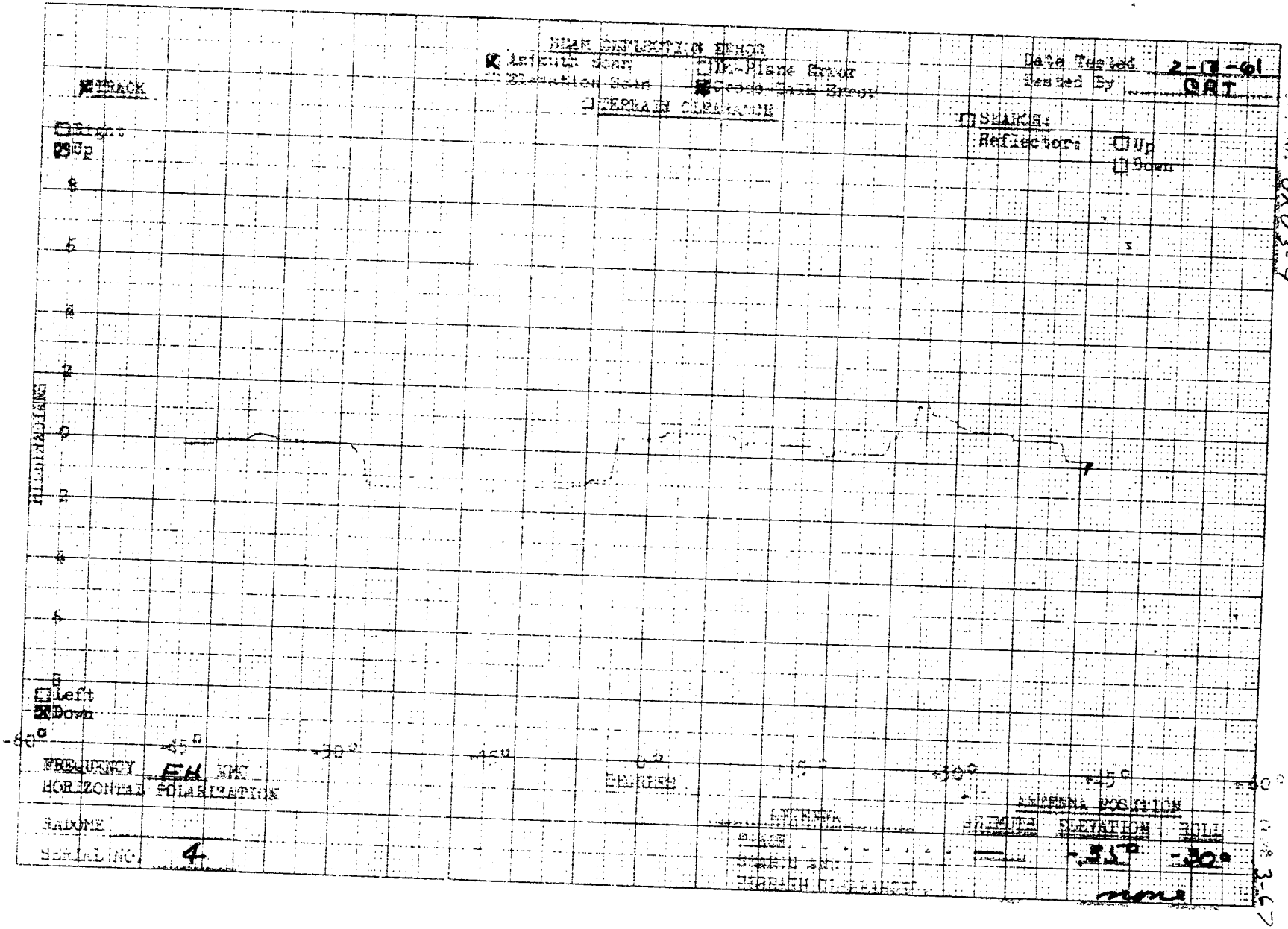

BEAM DEFLECTION ERROR
Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH:
Deflection: Up
Down
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-45
-30°

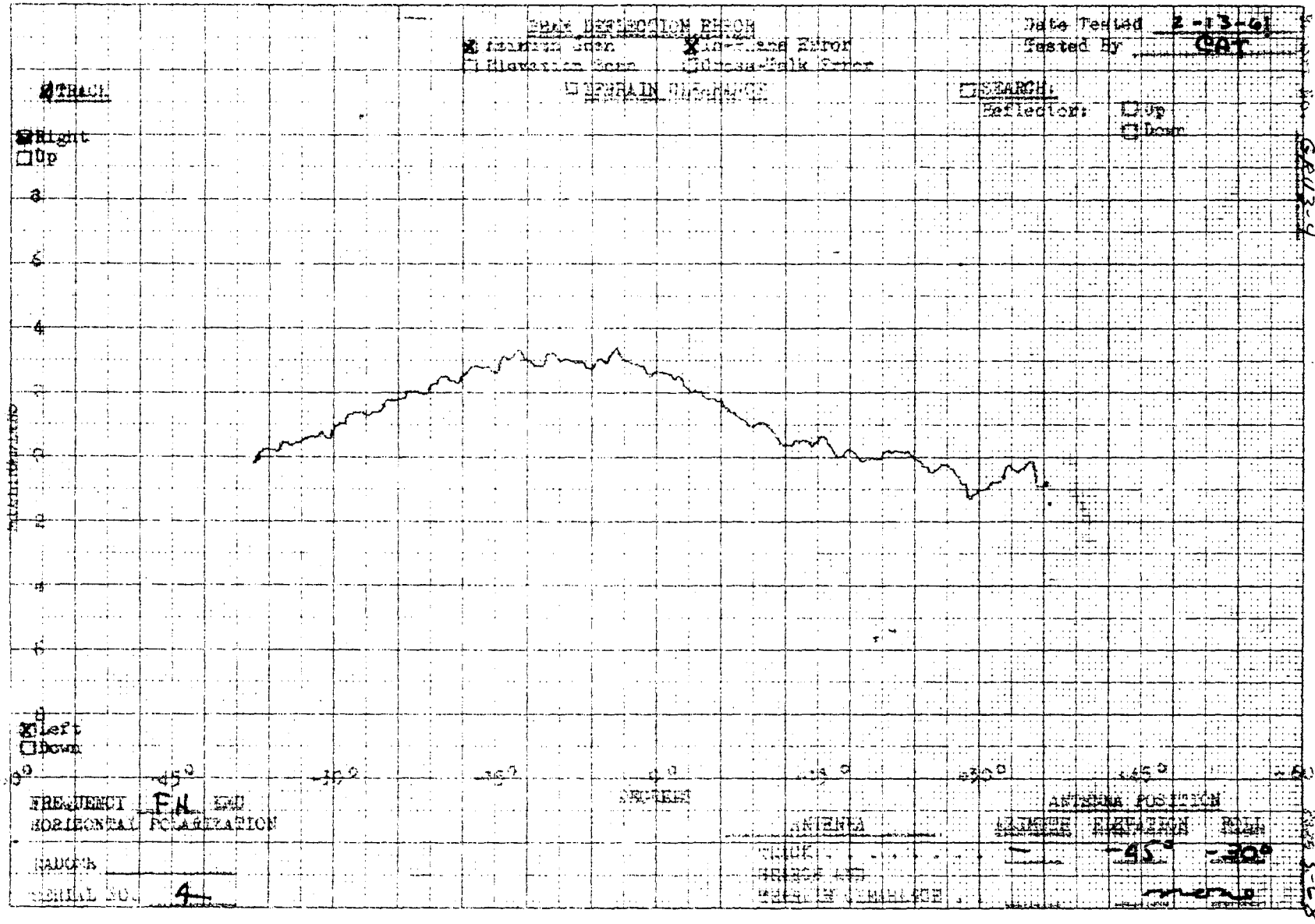

Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-15°
-30°
none
GRU3-4
3-63


BEAM DEFLECTION ERROR
Azimuth Error
Elevation Error
Cross-Talk Error
STREAM SEPARATION
TRACK
Right
Up
Left
Down
SHARC
Reflectors
Up
Down
Date Tested 2-13-61
Tested by CAT
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RANGE
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
-25°
-30°
CROSS TALK
TRACK SEPARATION
none


BEAM DEFLECTED DOWN
Elevation Beam
Azimuth Beam
Date Tested 2-13-61
Tested by CAT
TRACK
Right
Up
Left
Down
DECIBELS
-30°
-45°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6H MC
HORIZONTAL POLARIZATION
BAND
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
-25°
-30°
3-65


Date Tested 2-13-61
Tested By CAT
TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 4Ft MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
AZIMUTH
ELEVATION
-35°
-20°


Date Tested 2-17-61
Tested By ART
TRACK
Right
Up
SHAKES:
Reflector: Up
Down
Left
Down
FREQUENCY 5K MC
HORIZONTAL POLARIZATION
NAVAIR
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
-35°
-30°
3-7


PEAK DEFLECTION ERROR
Azimuth Beam
Elevation Beam
X Angle Error
Cross-Fade Error
TRACK
Right
Up
TERRAIN
SEARCH
Deflection:
Up
Down
Left
Down
FREQUENCY
HORIZONTAL POLARIZATION
ANTENNA
Date Tested 2-13-61
Tested By COT
-45°
-30°

BEAM DEFLECTION ERROR

☒ Azimuth Beam ☐ In-Plane Error

☐ Elevation Beam ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 2-13-61

Tested By GAT

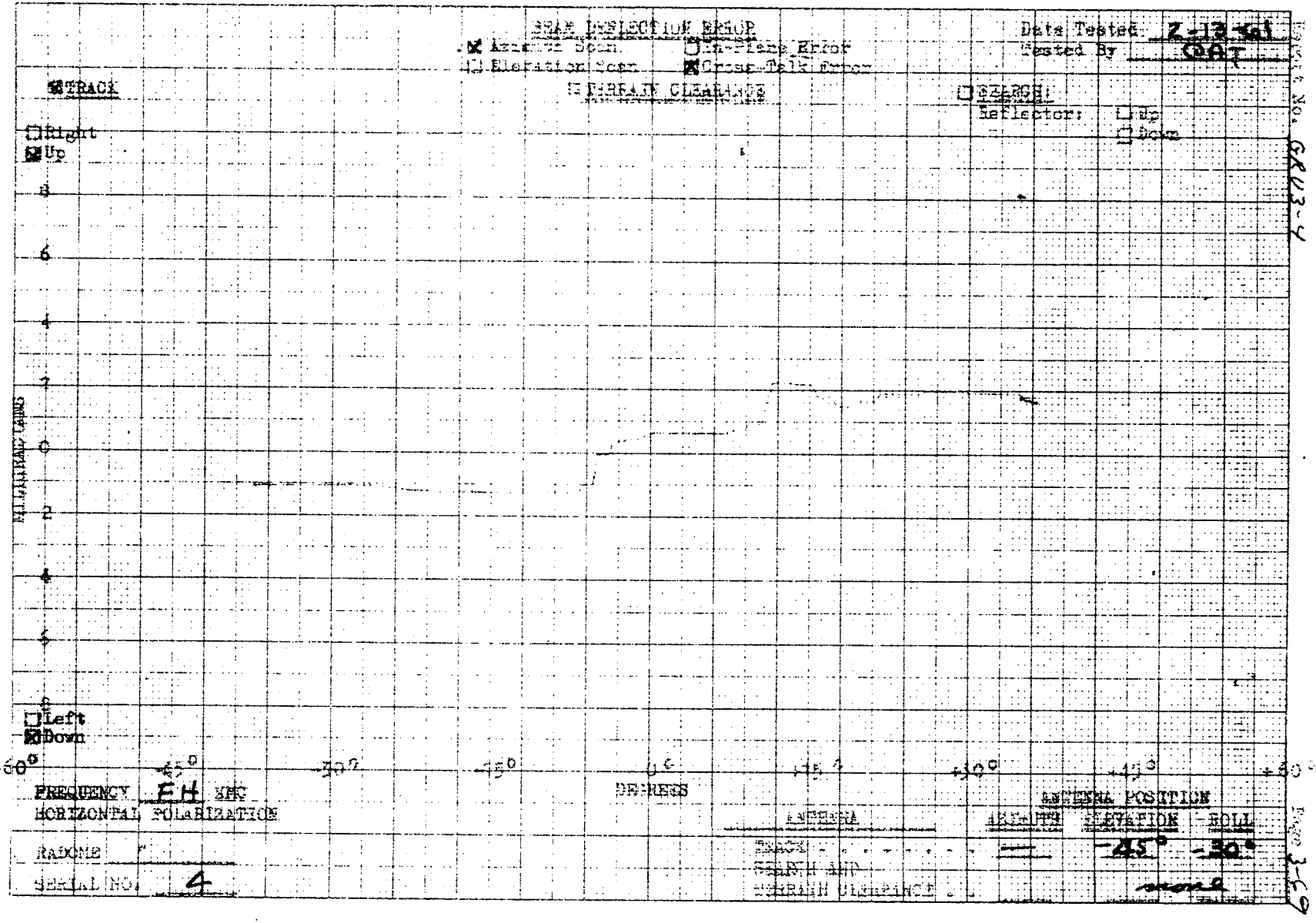
☒ TRACK

☐ Right

☒ Up

☐ SEARCH

Reflector: ☐ Up ☐ Down



FREQUENCY 5H MC

HORIZONTAL POLARIZATION

RADOME

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
BEAM	—	-45°	-30°
DEPTH AND TERRAIN CLEARANCE		none	

GR33-4

Page 3-59

SECTION 32

TRACK BORESIGHT ERROR

F_H @ -60° ROLL

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 3-3-61
Tested By [illegible]

Report No. 6443-4

☒ TRACK ☐ SEARCH:
Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

MILLIRADIANS

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

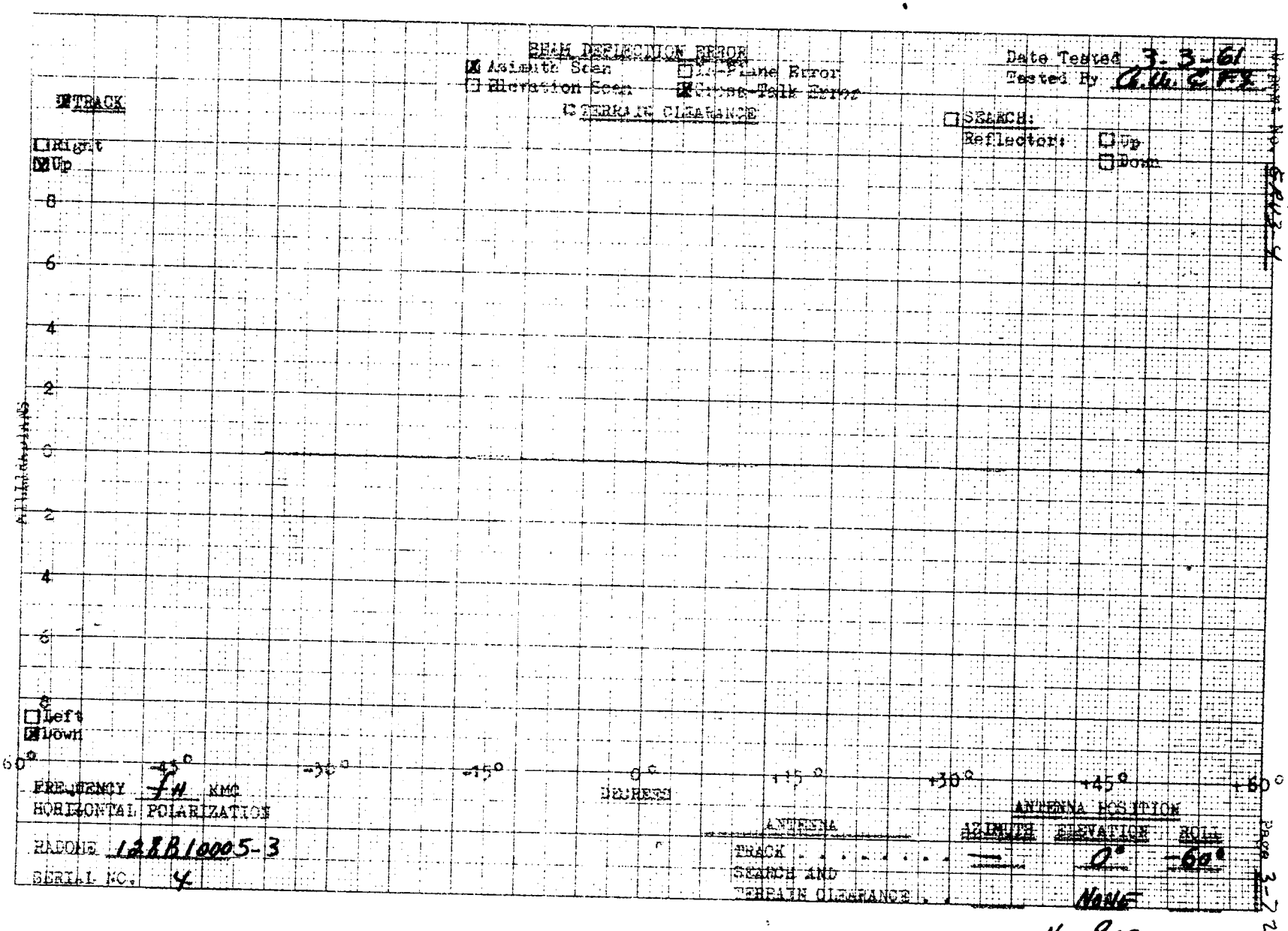
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION

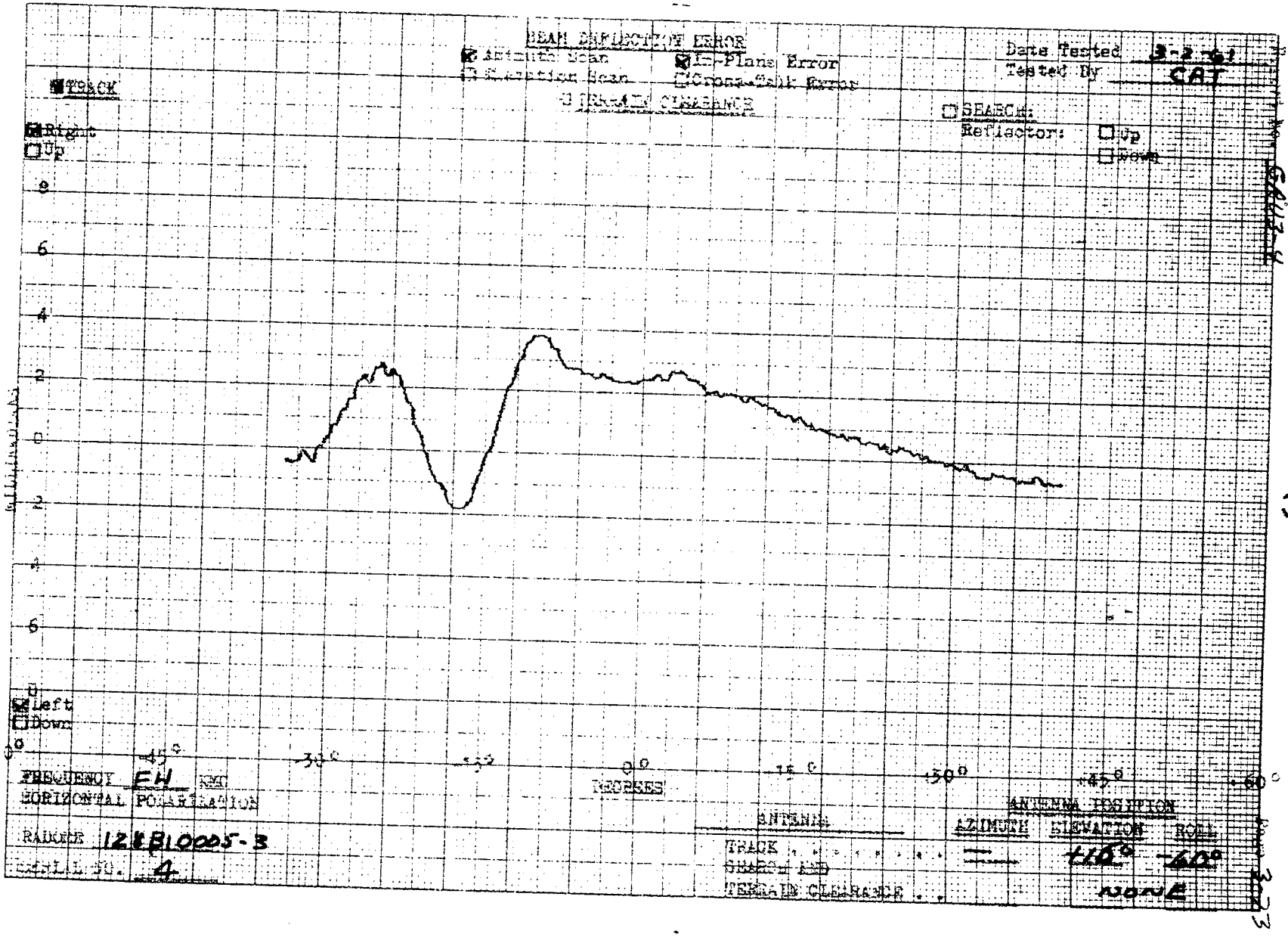
RADOME 1288100-3
SERIAL NO. 4

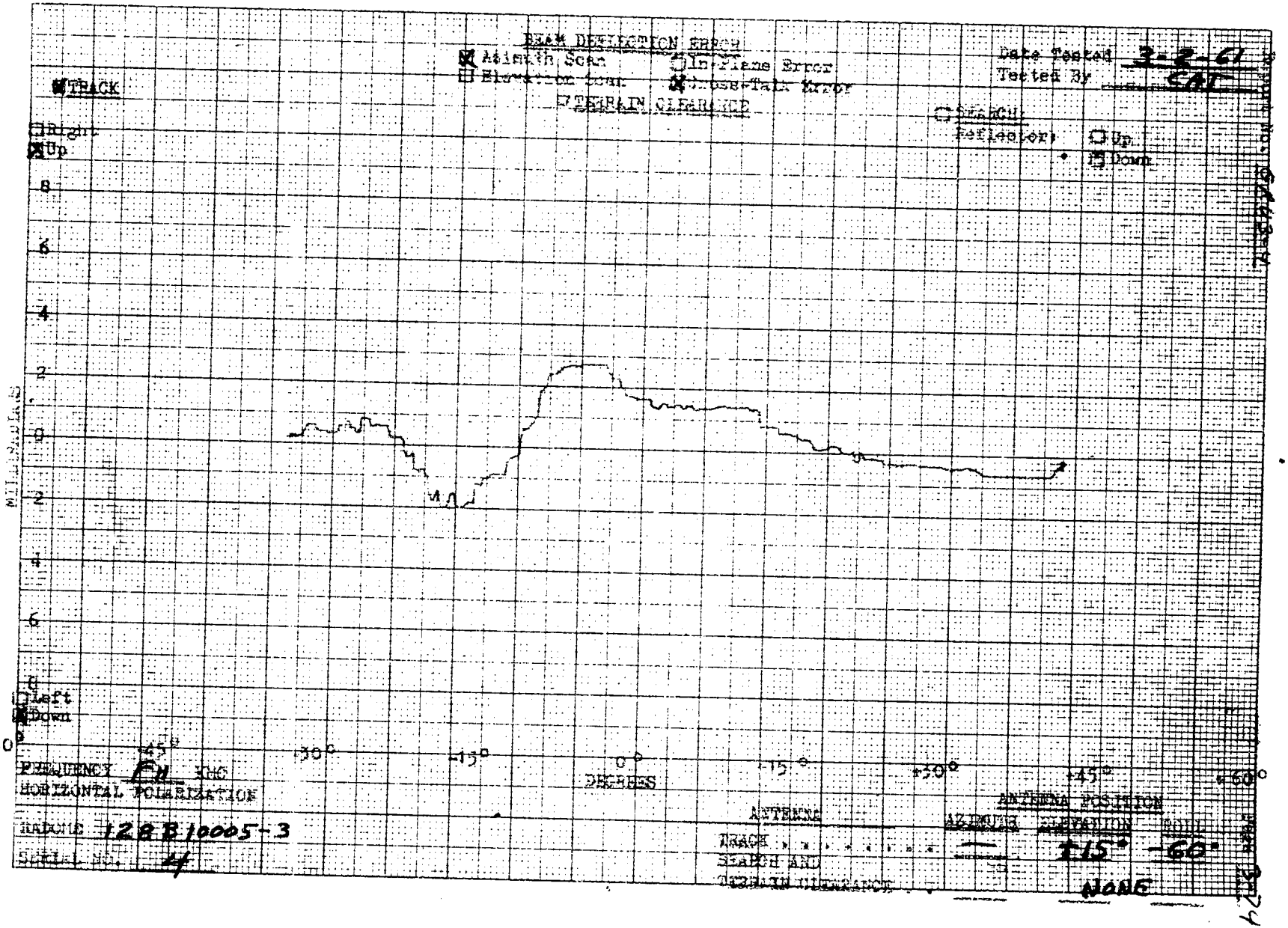
ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	⇌	0°	-60°
SEARCH AND TERRAIN CLEARANCE		NONE	

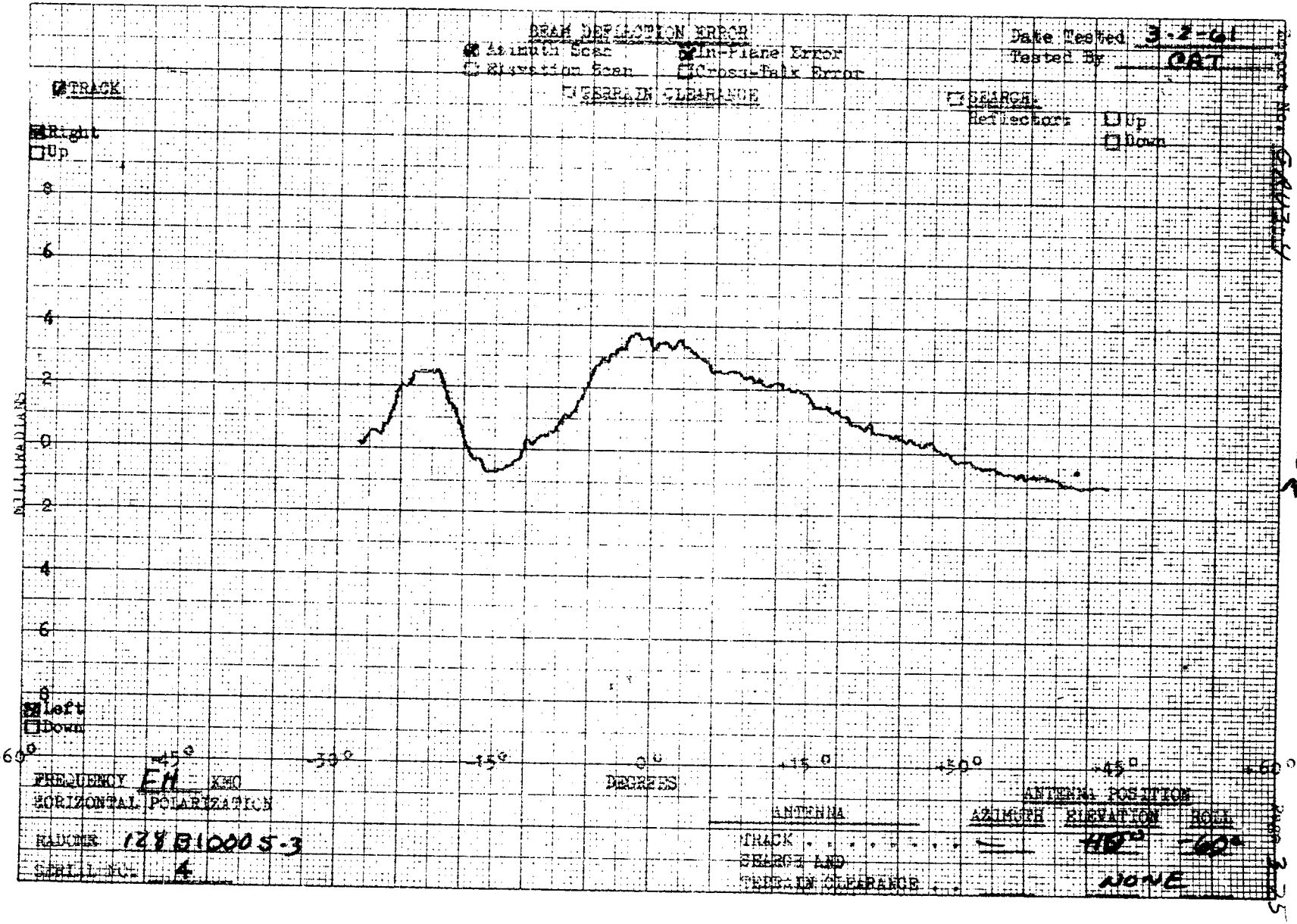
No RADOME

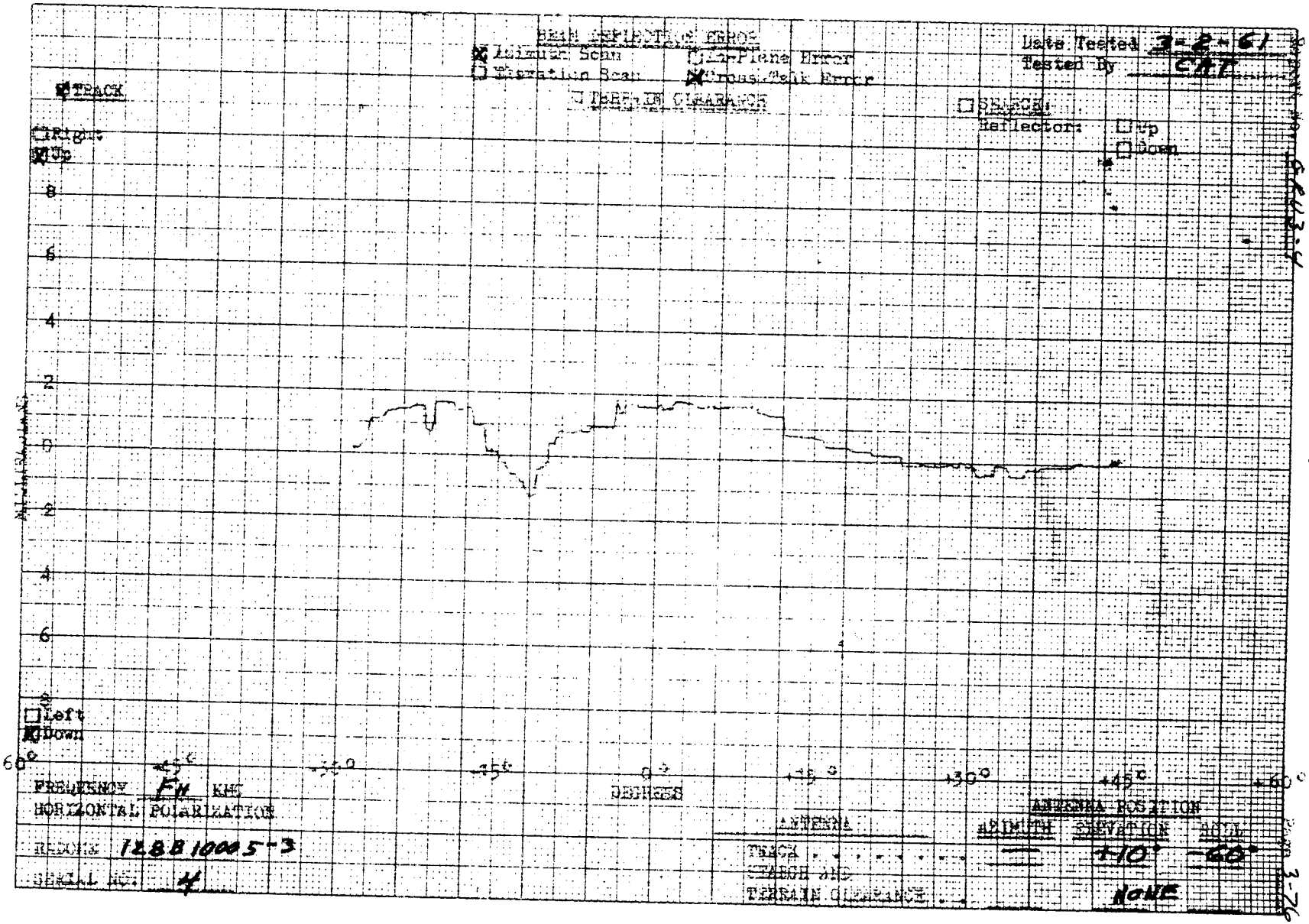
Page 3-71


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
E-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-3-61
Tested By Ch. C FX
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
Antenna Units
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
-60°
None
No Radome


BEAM DEFLECTION ERROR
Azimuth Beam
Elevation Beam
E-Plane Error
Cross-Gain Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
6
4
2
0
2
6
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY 5690 MC
HORIZONTAL POLARIZATION
RANGE 12BB0005-3
ANTENNA:
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+16° -60°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Crosstalk Error
TERRAIN CLEARANCE
Date Tested 3-3-61
Tested By
TRACK
Right
Up
Left
Down
SEARCH
Reflector
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
DEGREES
-15°
+30°
+45°
+60°
FREQUENCY Fh MC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SHELL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
+15° -60°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY EH KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SHELL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
HE3 -60°
NONE


BEAM REFLECTED ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Peak Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY F4 KMC
HORIZONTAL POLARIZATION
RECORD 12BB10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
AGC
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
+10°
-60°
NONE
3-76

BEAM DEFLECTION ERROR

Date Tested 5-27-61

Tested By CAT

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☒ TRACK ☐ TERRAIN CLEARANCE ☐ SEARCH

Reflectors ☐ Up ☐ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY FH MC

HORIZONTAL POLARIZATION

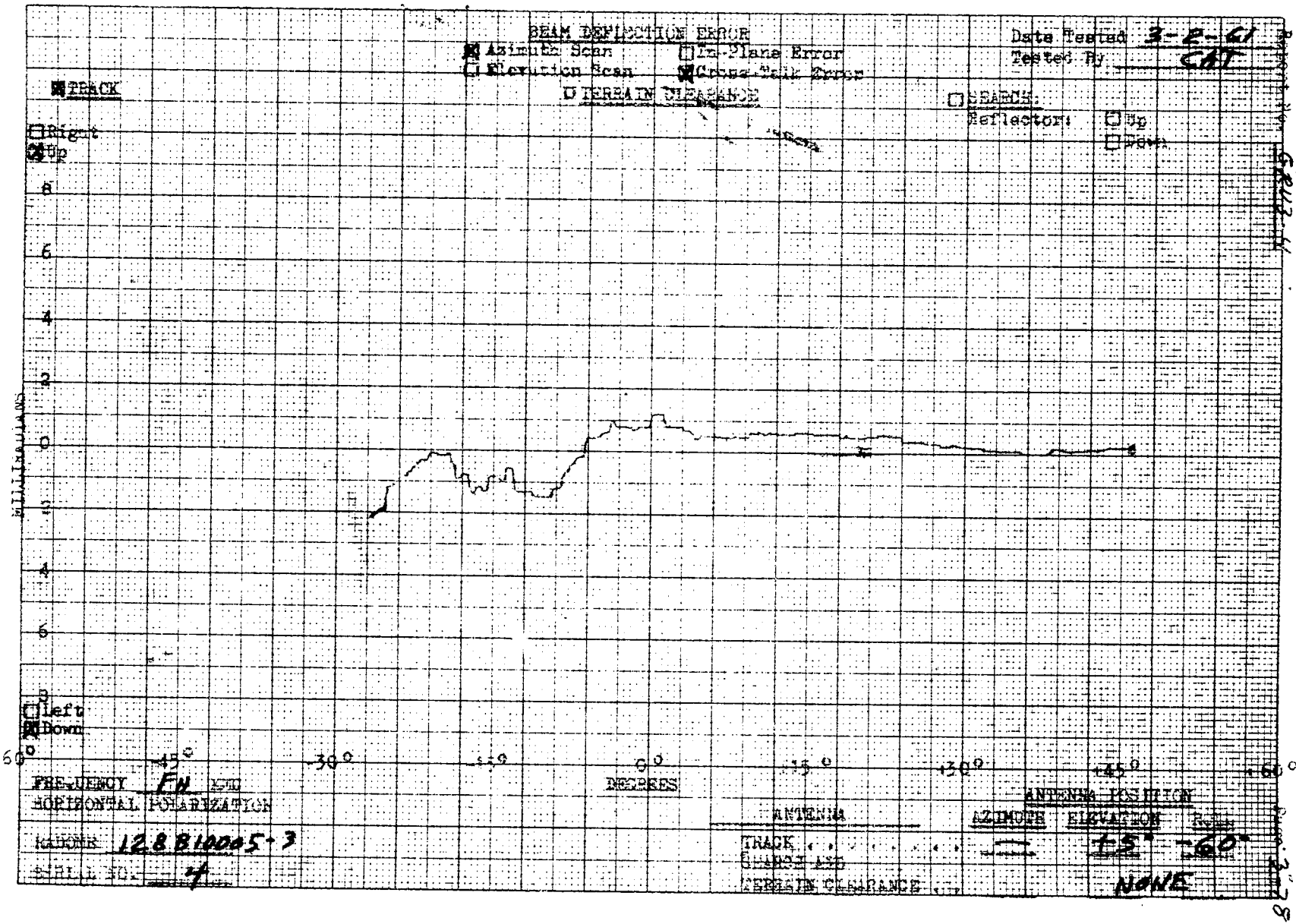
RADOME 128B10005-3

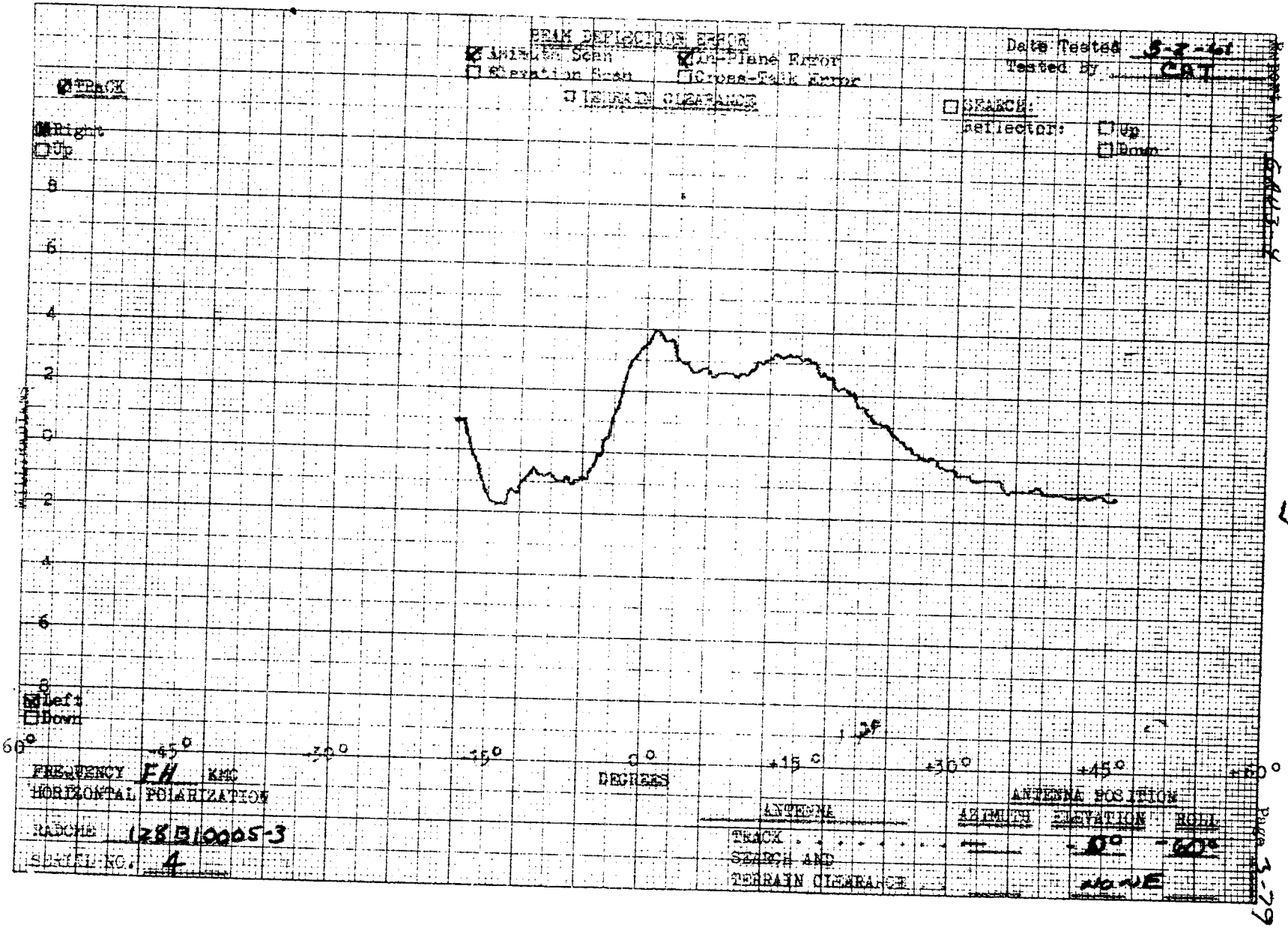
SERIAL NO. 4

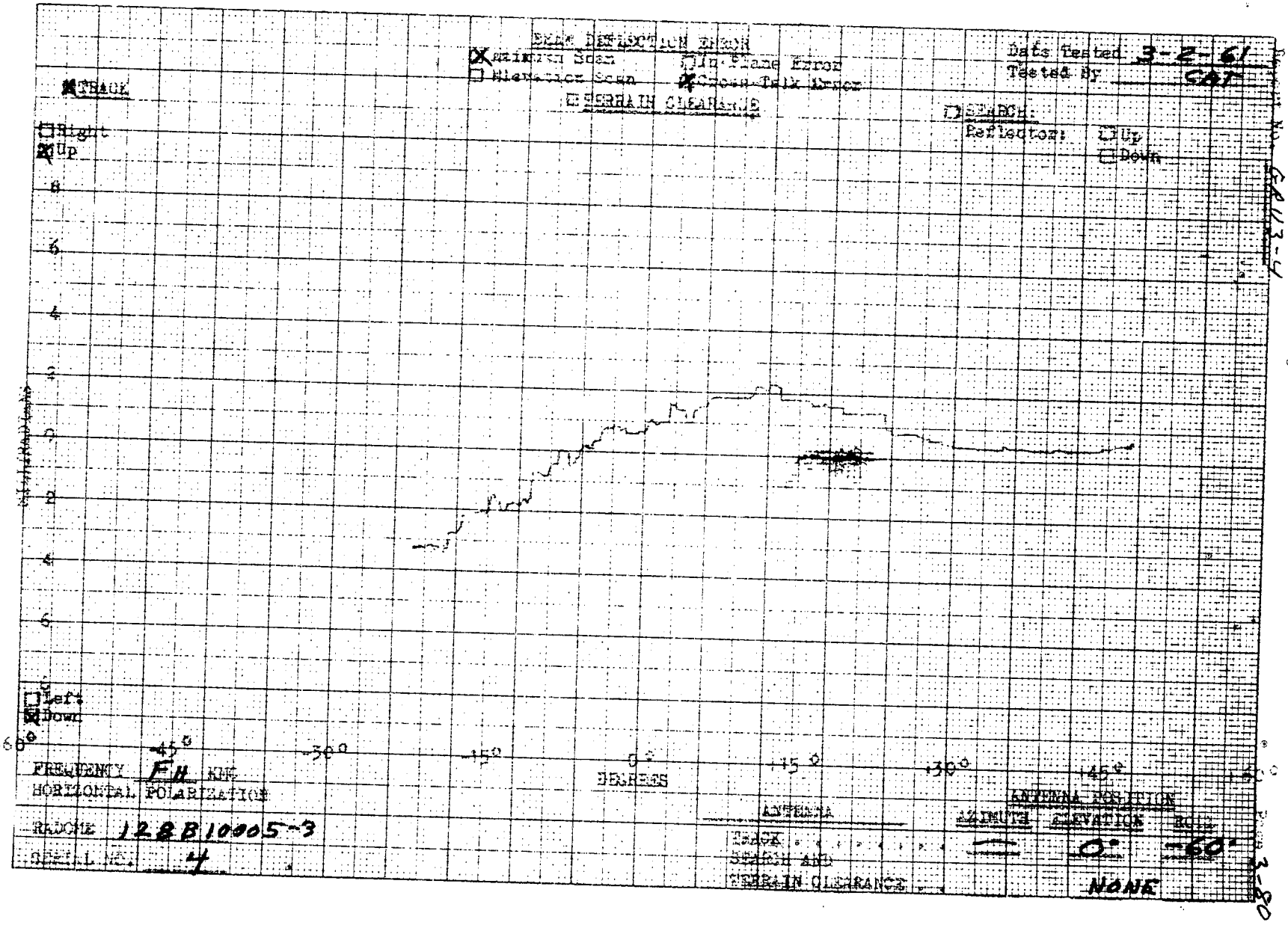
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	+0°	-60°
SEARCH AND TERRAIN CLEARANCE			none

10 X 10 TO THE ½ INCH 359 11G




PEAK DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Air-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 5-8-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Deflection: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FH KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK -0° -60°
SEARCH AND TERRAIN CLEARANCE none


BEAM DEFLECTION SHOWN
Azimuth Scan
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector:
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
DEGREES
FREQUENCY FH MC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SHELL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
— 0° -60°
NONE

K&E 10 X 10 TO THE INCH 359-11

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ E-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 3-23-61

Tested By CAT

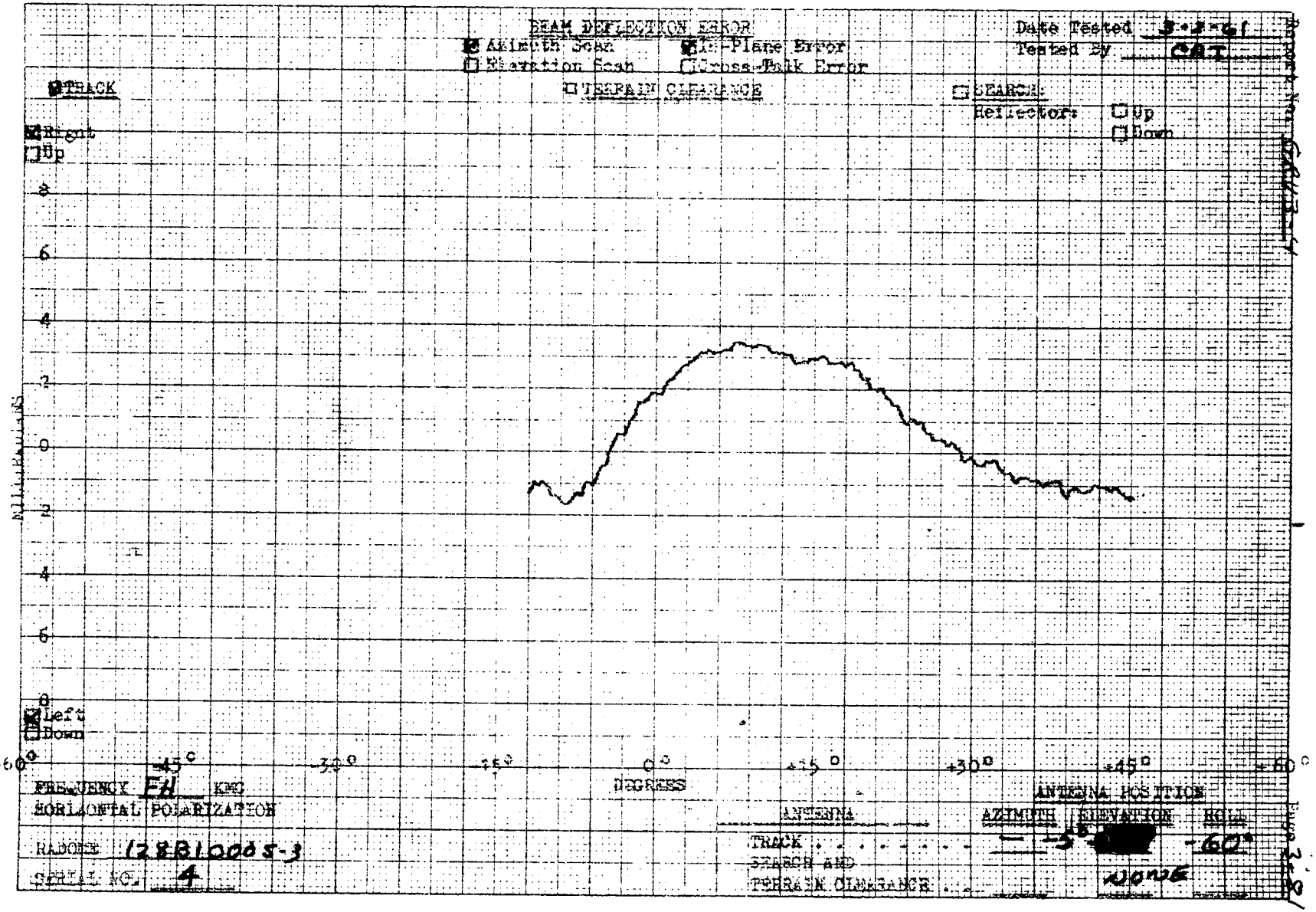
☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



FREQUENCY FH MC

HORIZONTAL POLARIZATION

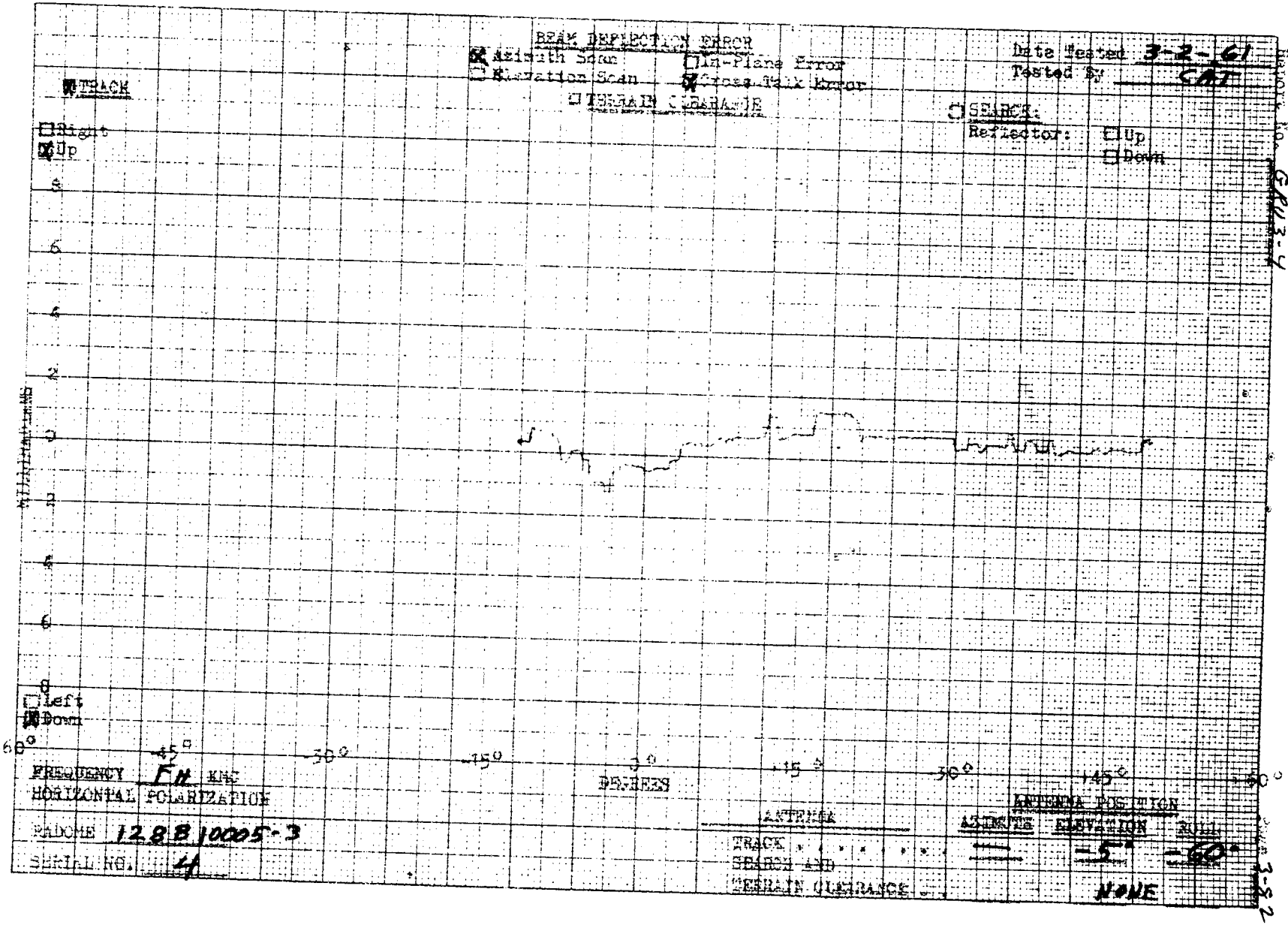
RADOME 128B1000S-3

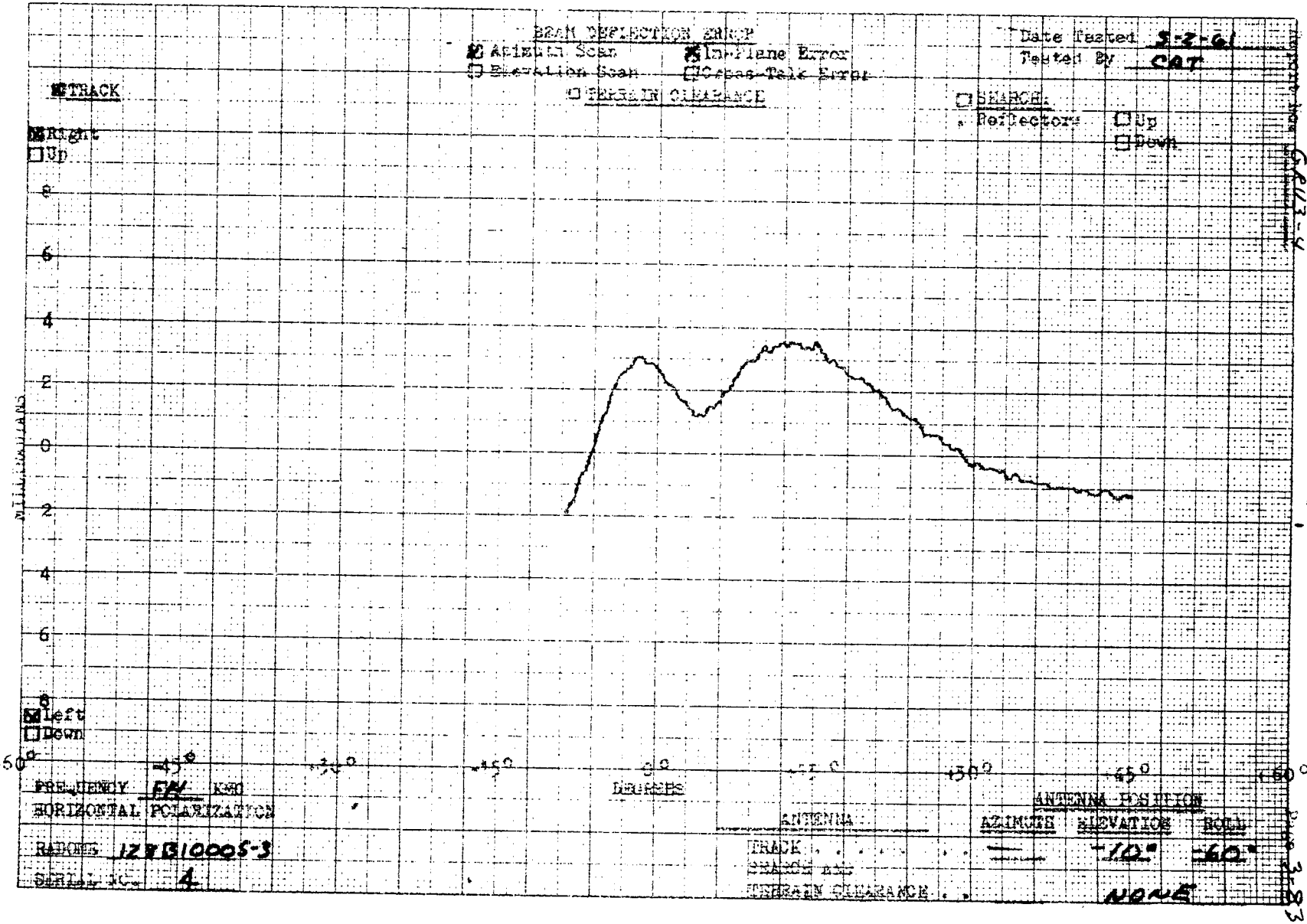
SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	-45	[redacted]	-60°
SEARCH AND TERRAIN CLEARANCE			

None


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5H KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-5° -60°
NONE
GRU3-4
3-22


BEAM DEFLECTION SHOWN
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 5-3-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflectors
Up
Down
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5690 KMC
HORIZONTAL POLARIZATION
RADOME 12"B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK
SEARCH
TERRAIN CLEARANCE
-10° -60°
NONE

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By CAT

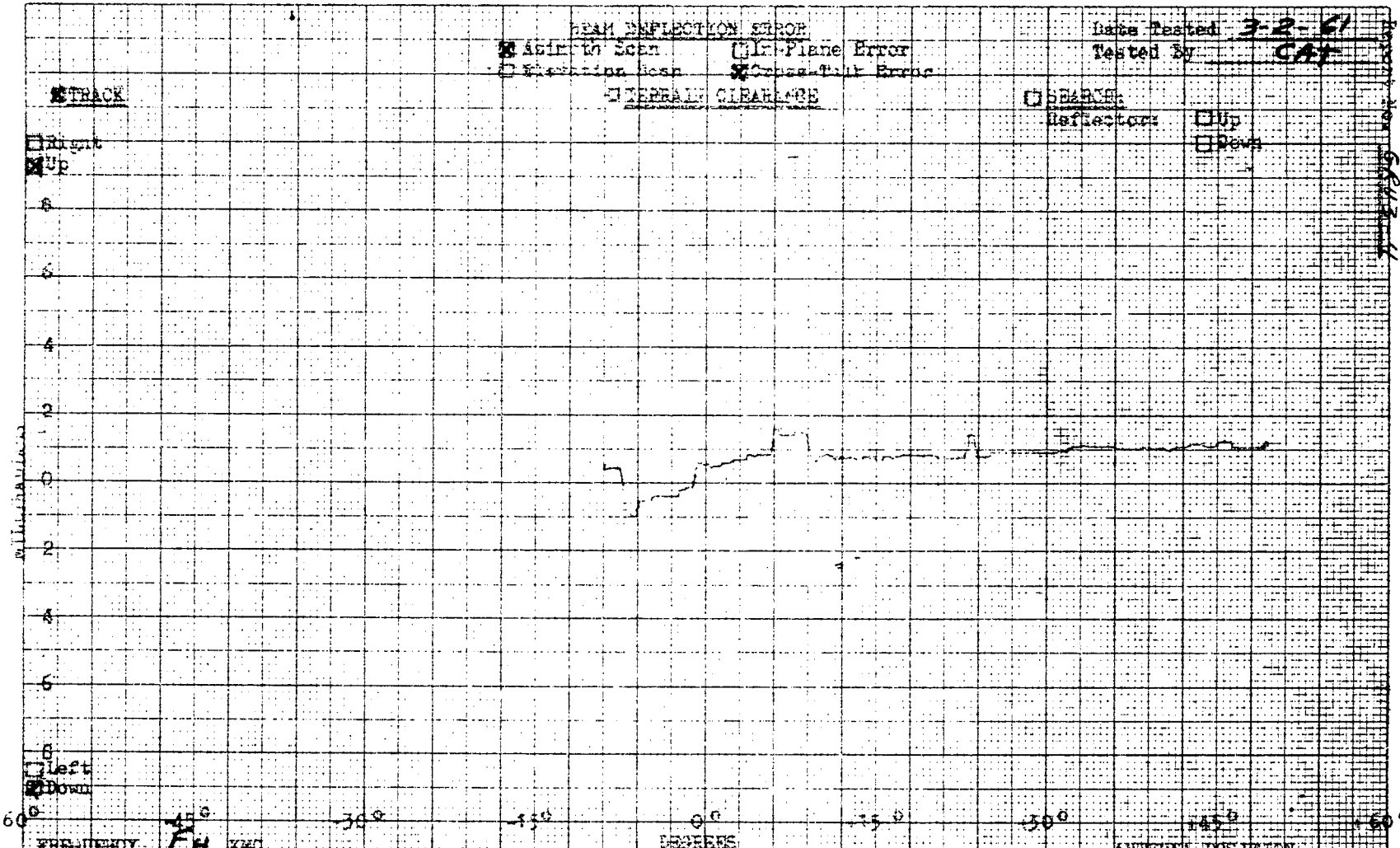
☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☒ TRACK ☐ TERRAIN CLEARANCE ☐ SEARCH

☐ Right
☒ Up

Deflection ☐ Up ☐ Down



☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY FH MC

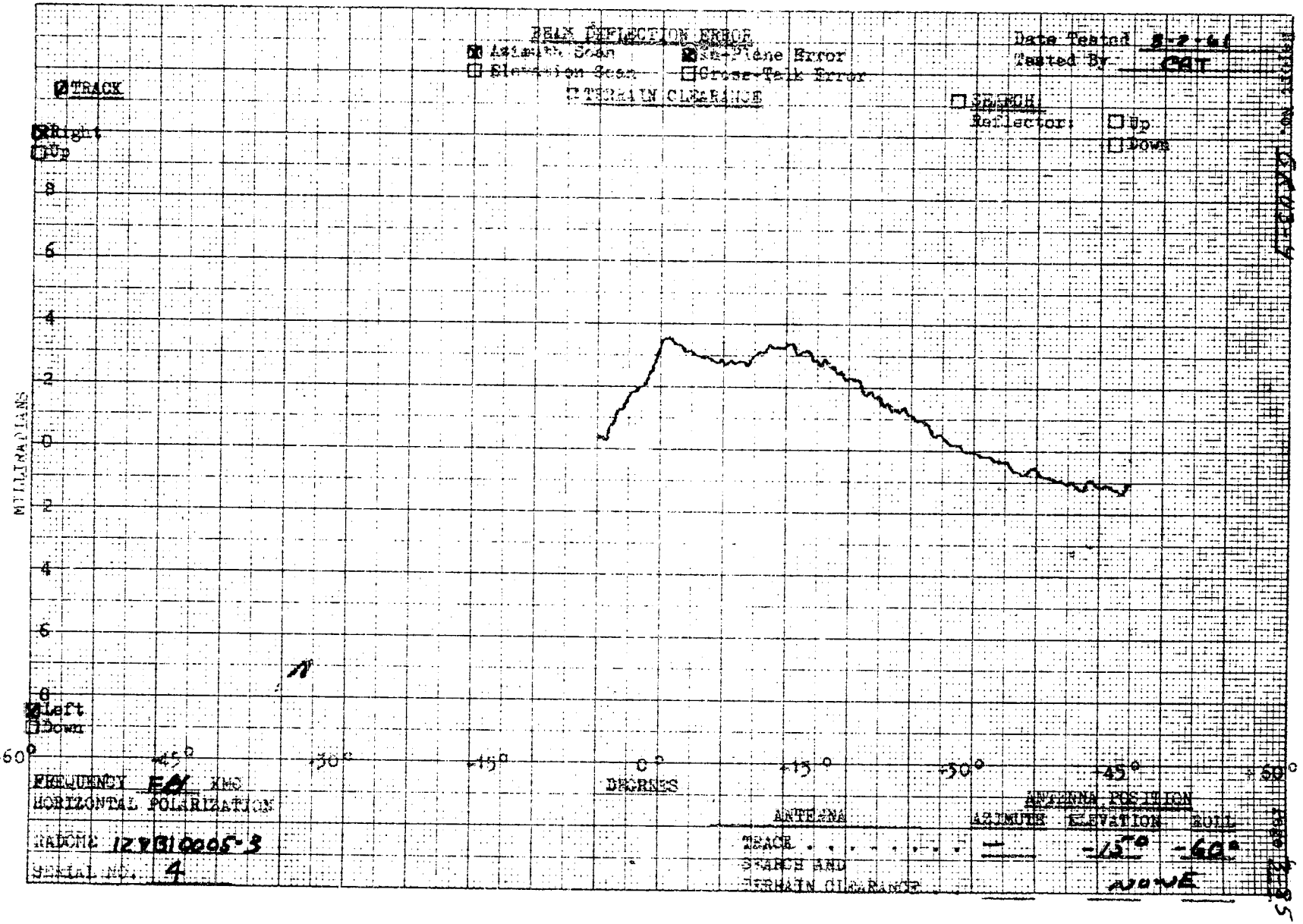
HORIZONTAL POLARIZATION

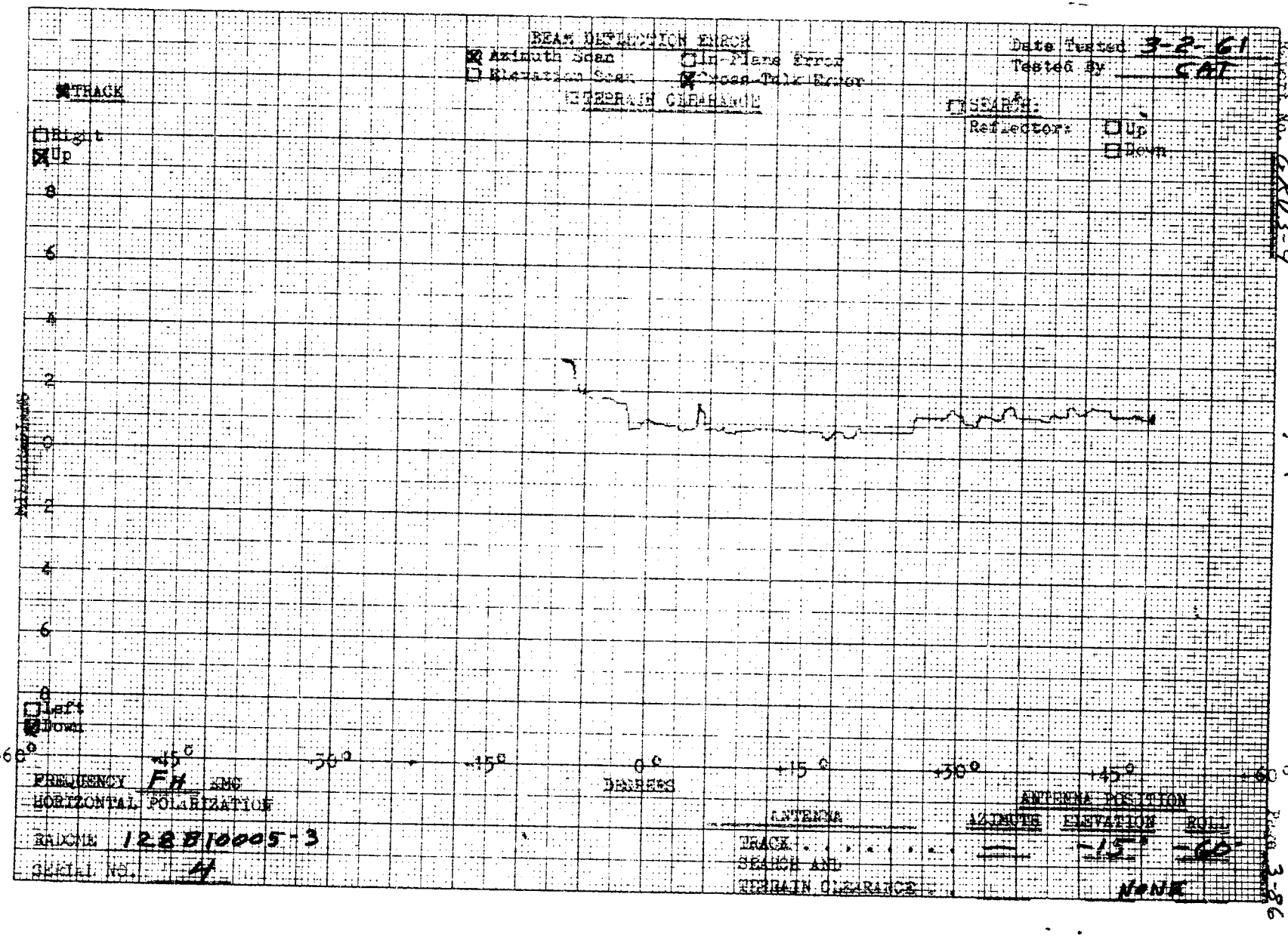
ANTENNA POSITION

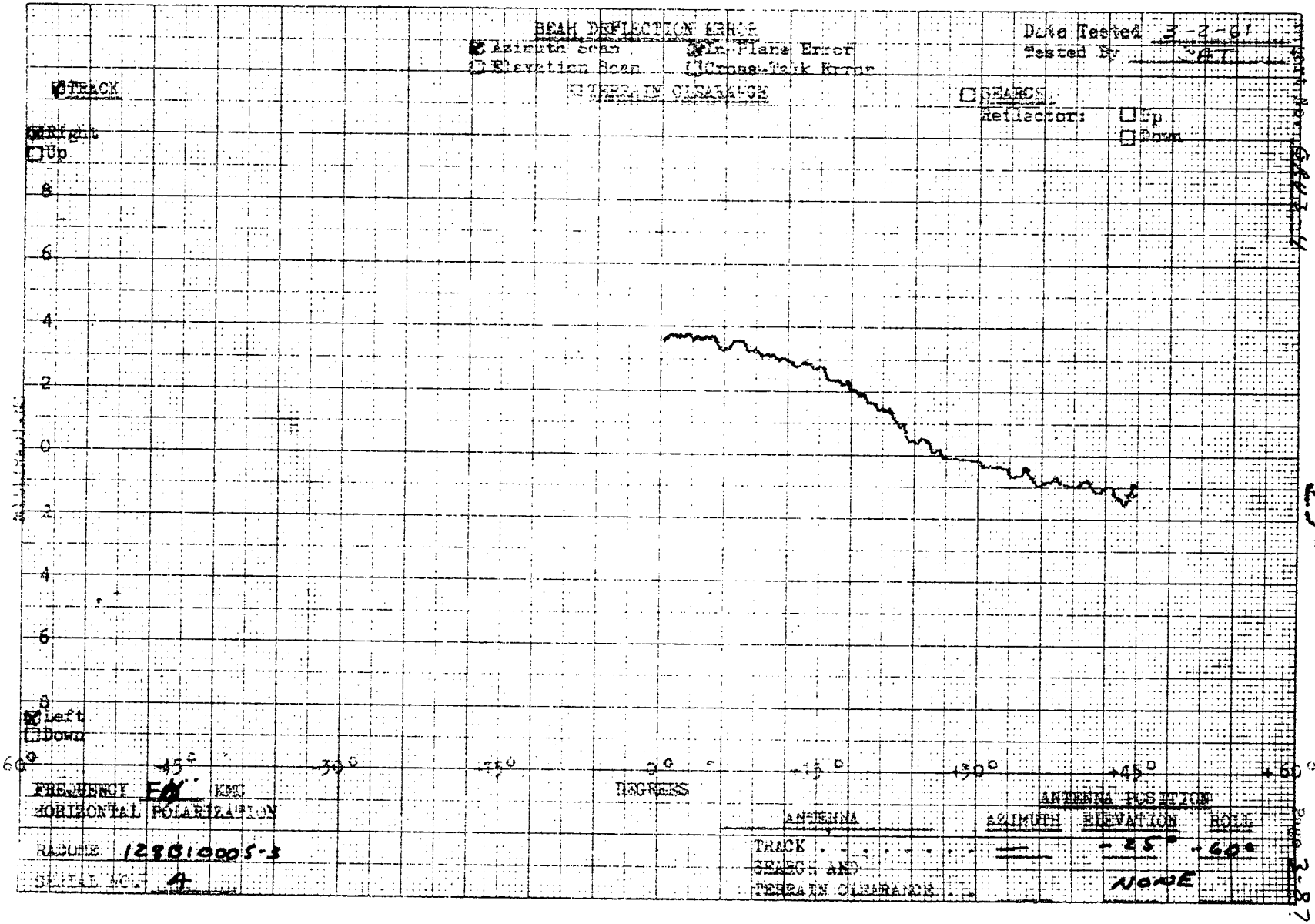
ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-10°	-60°
SEARCH AND TERRAIN CLEARANCE			NONE

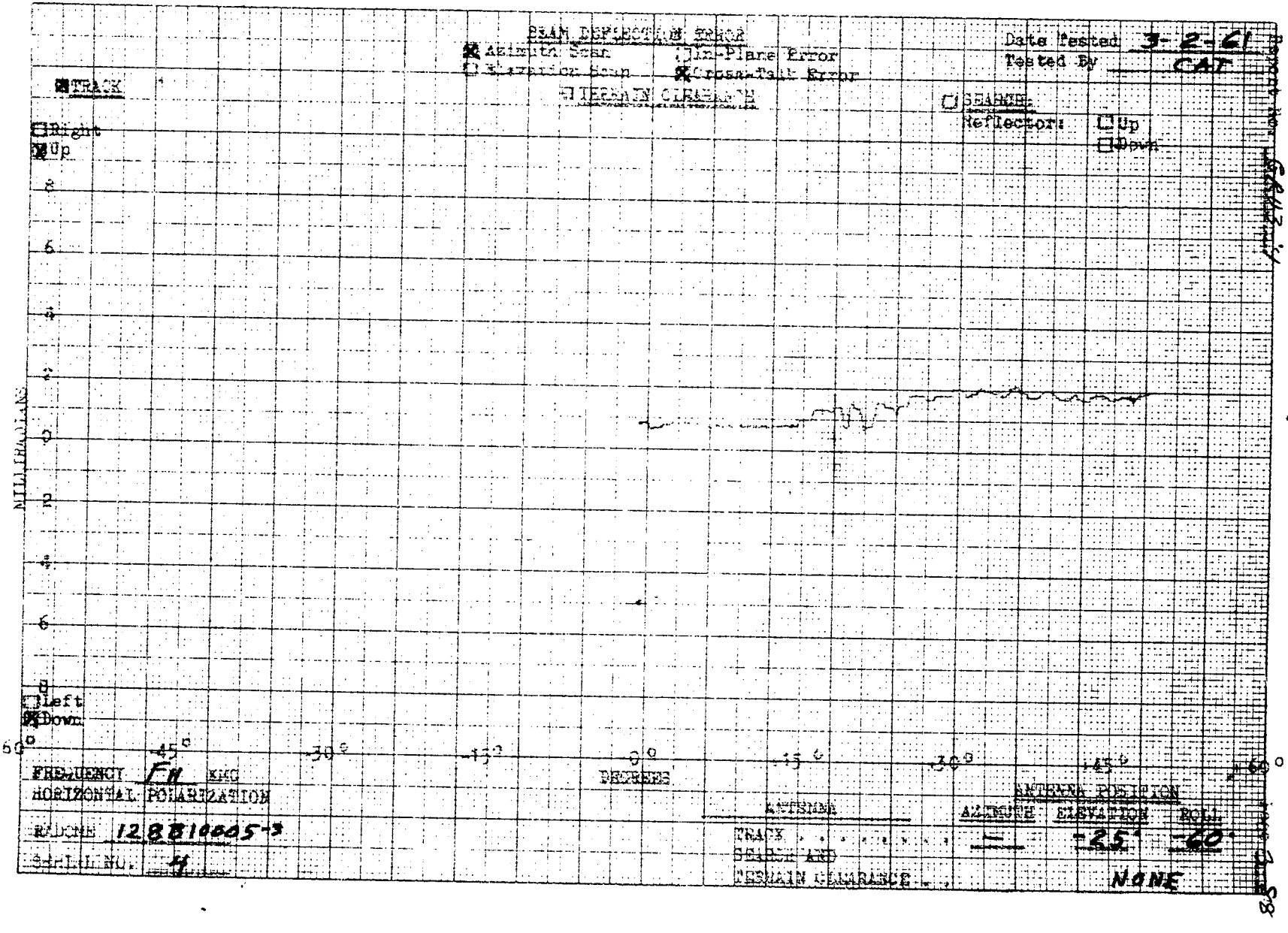
RADOME 1288 10005-3

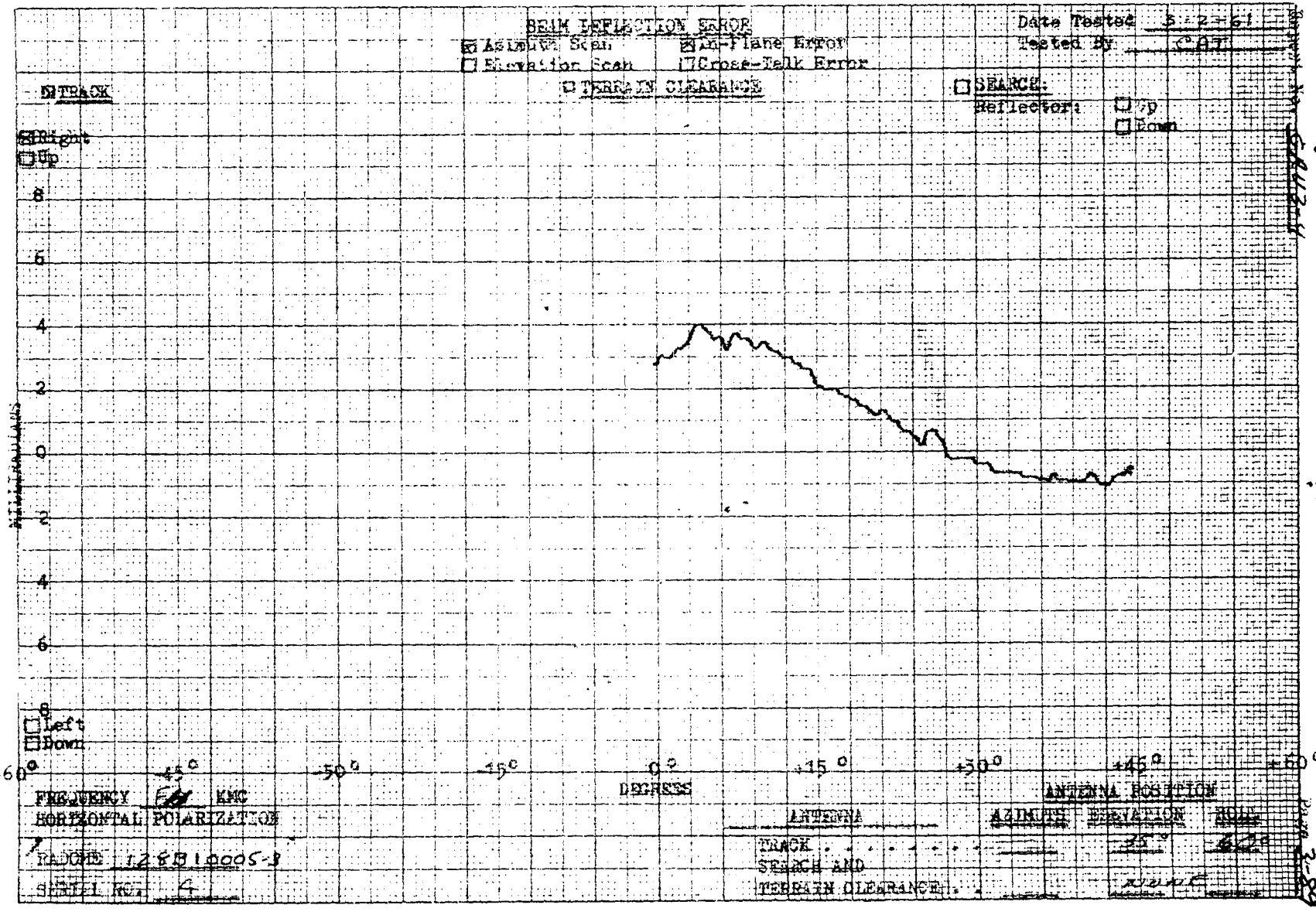
SHEET NO. 4

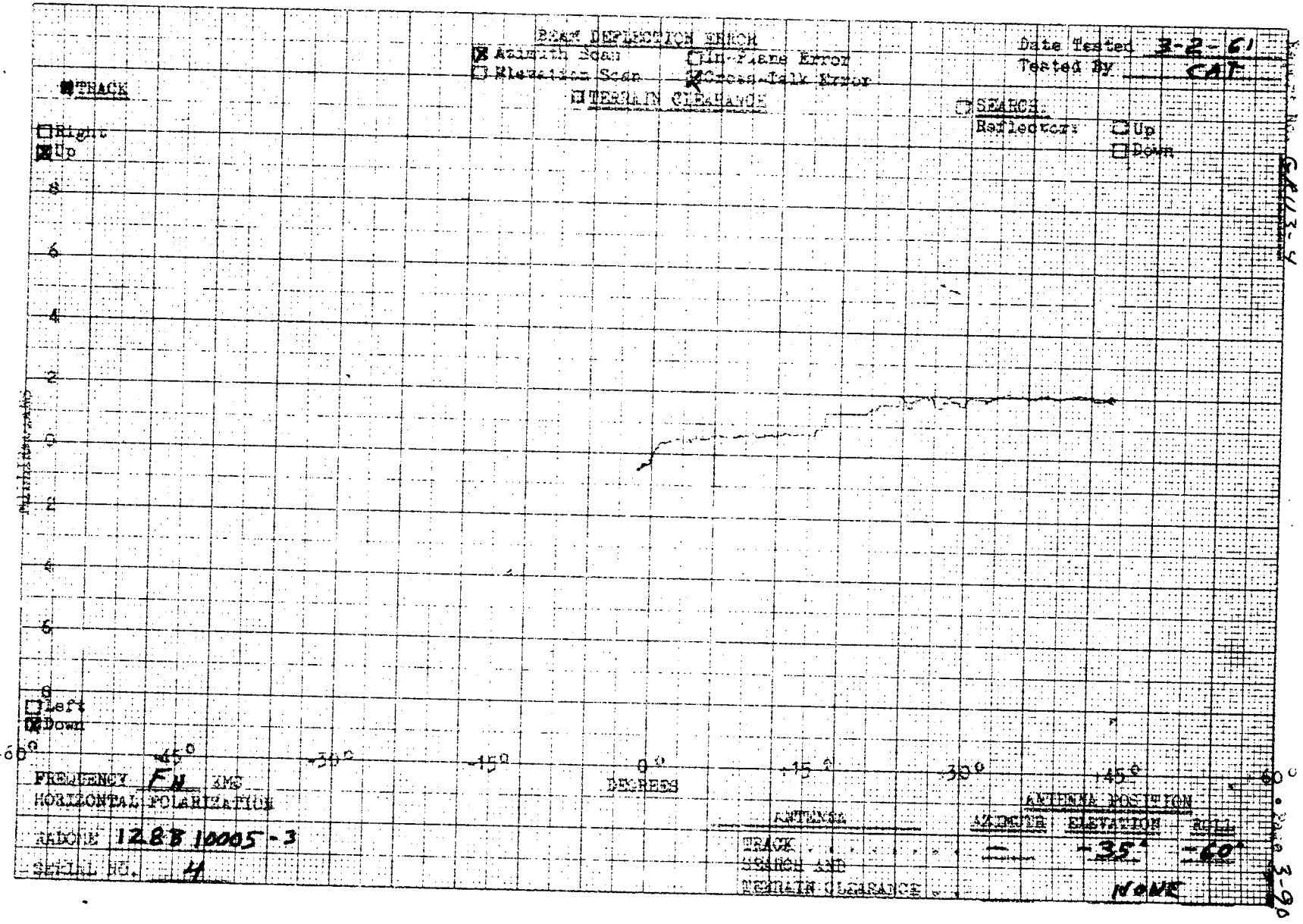

PEAK DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Monopulse Error
Cross-Talk Error
TERRAIN CLEARANCE
SEARCH
Reflector: Up Down
Date Tested 8-2-61
Tested By CAT
TRACK
Right
Up
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6GC MC
HORIZONTAL POLARIZATION
RADOME 12X310005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA AZIMUTH ELEVATION ROLL
TRACK — -45° -60°
SEARCH AND TERRAIN CLEARANCE ABOVE

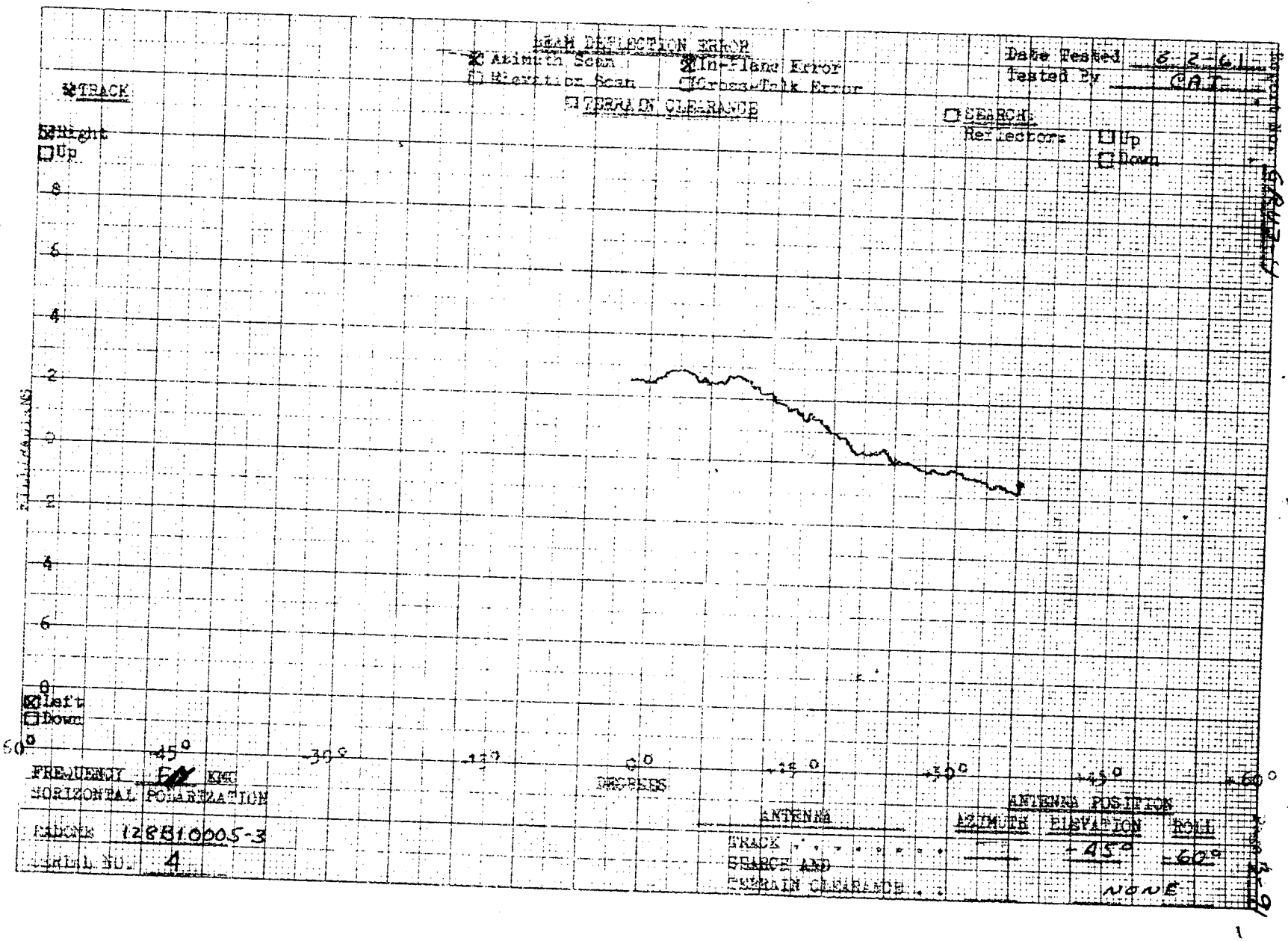

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH:
Reflector: Up
Down
Milliradians
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FH MMC
HORIZONTAL POLARIZATION
RADOME 1288B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
-15° -60°
NONE

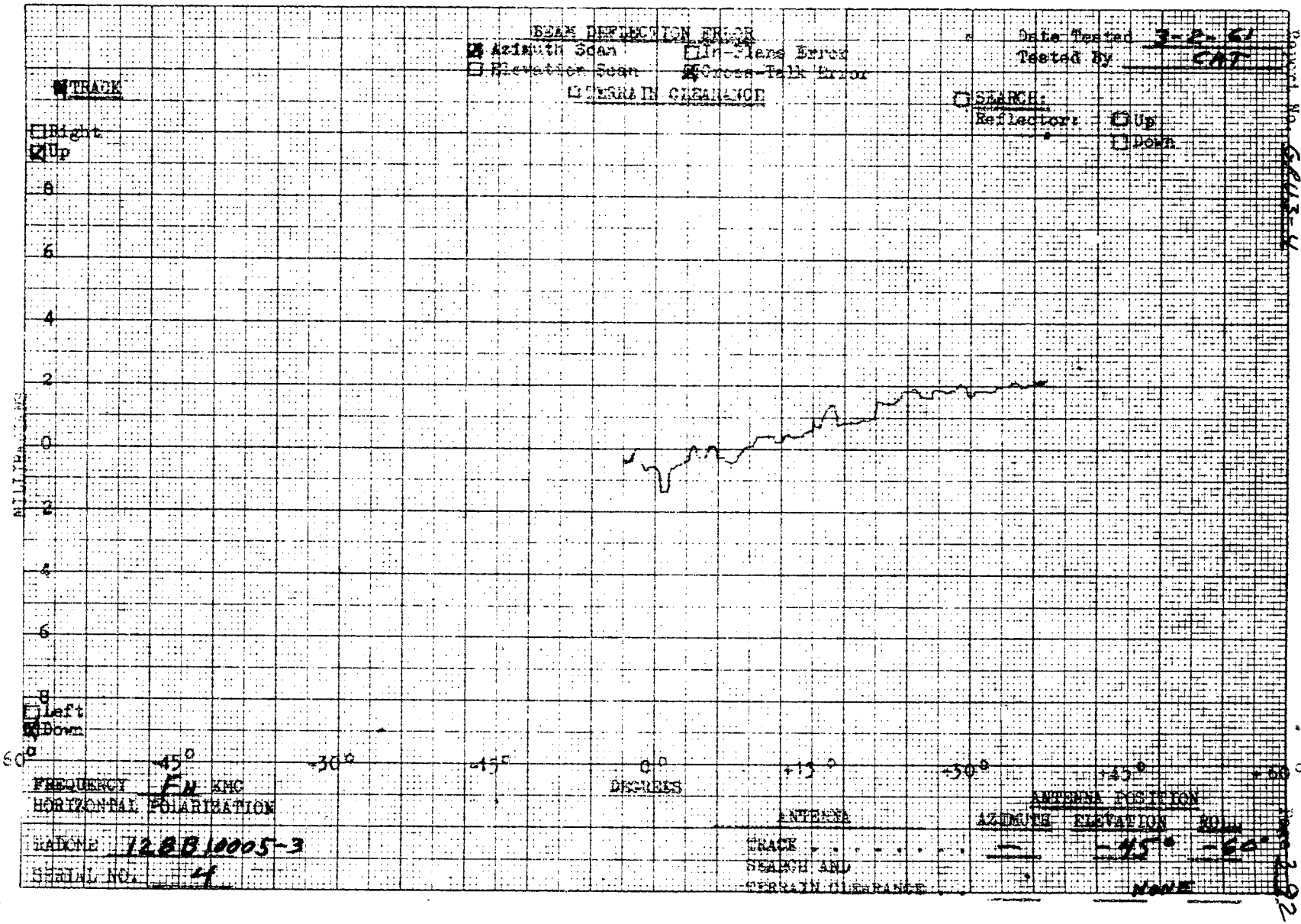

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By SAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Ed KMC
HORIZONTAL POLARIZATION
RADOME 12801000S-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
— -25° -60°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Tail Error
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
TERRAIN CLEARANCE
SEARCH
Reflector: Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY 5H KMC
HORIZONTAL POLARIZATION
RADOME 1288100053
SHELL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
— +25° -20°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 5-2-61
Tested By C.A.T.
TRACK
Right
Up
SEARCH
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6 KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
TRACK
SEARCH AND
TERRAIN CLEARANCE
25°
ZONE 12681 0005-3
SHEET NO. 4


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Phase Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fu MC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
—
+35°
-60°
NONE
3-2-61

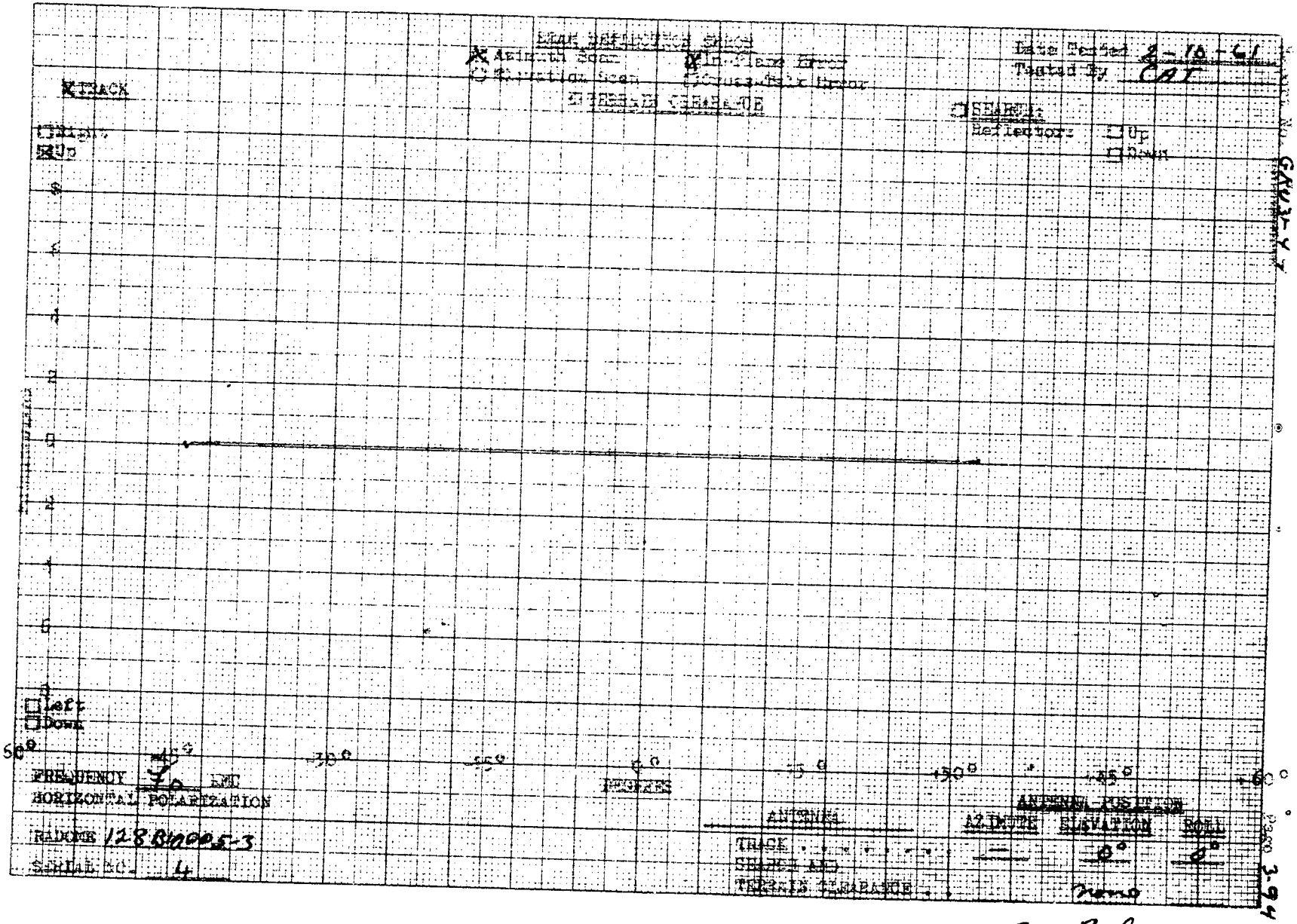

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 6-2-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5690 MC
HORIZONTAL POLARIZATION
CAUCHE 128S10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-45°
-60°
NONE

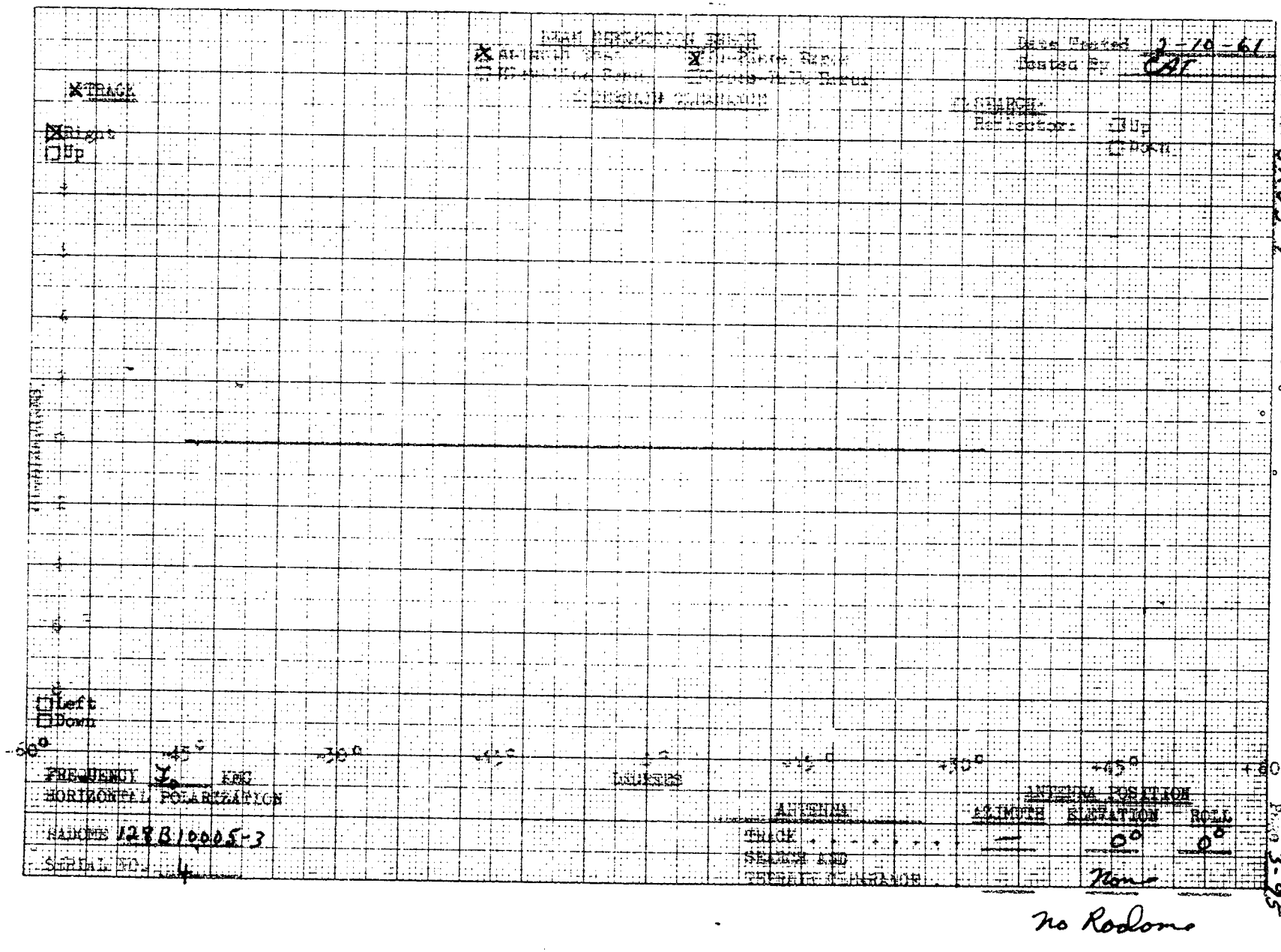

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Null-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflectors
Up
Down
MILLIAMPERES
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FM KMC
HORIZONTAL POLARIZATION
RATING 12BB10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-45° -64°
NONE

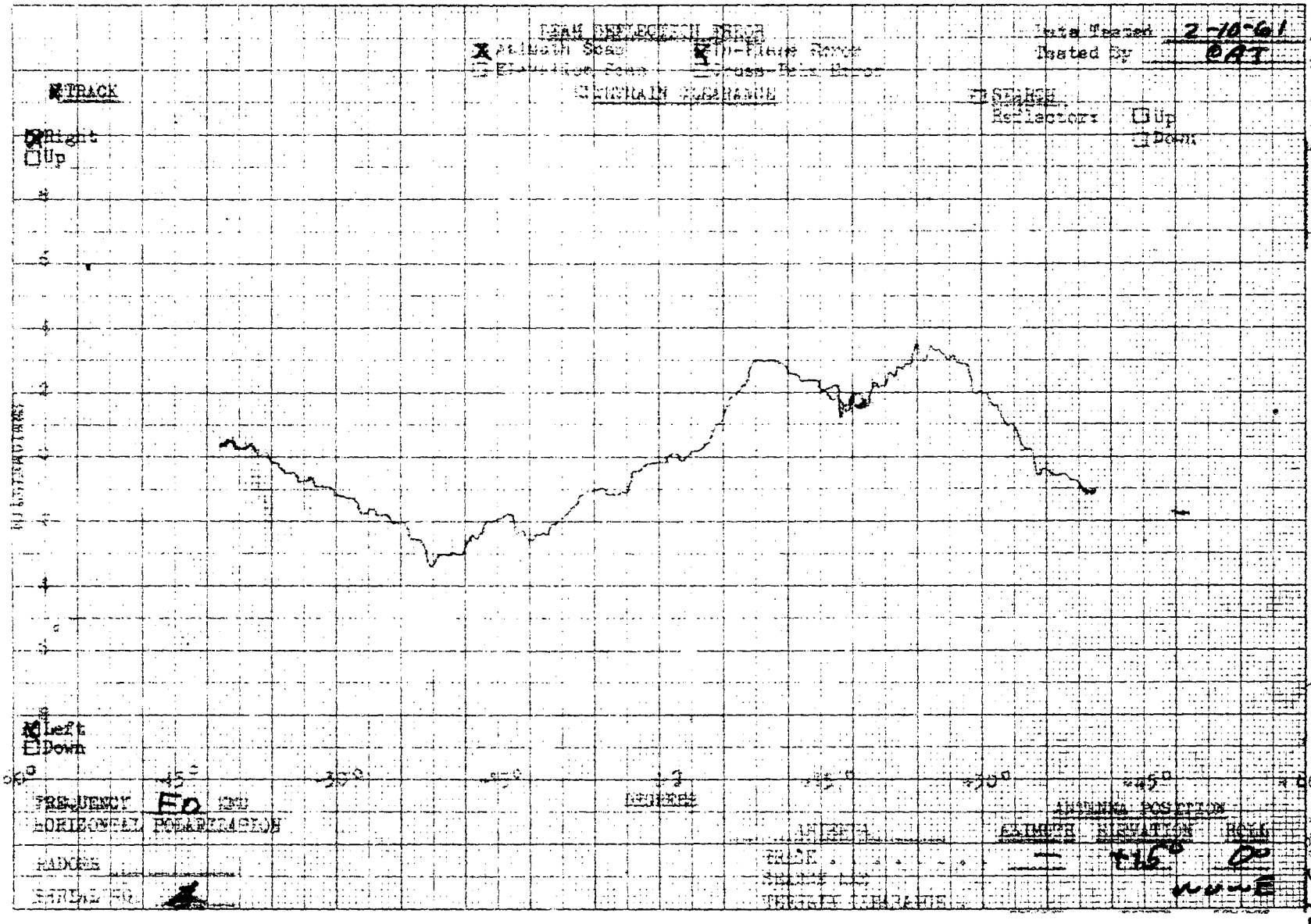
SECTION 33

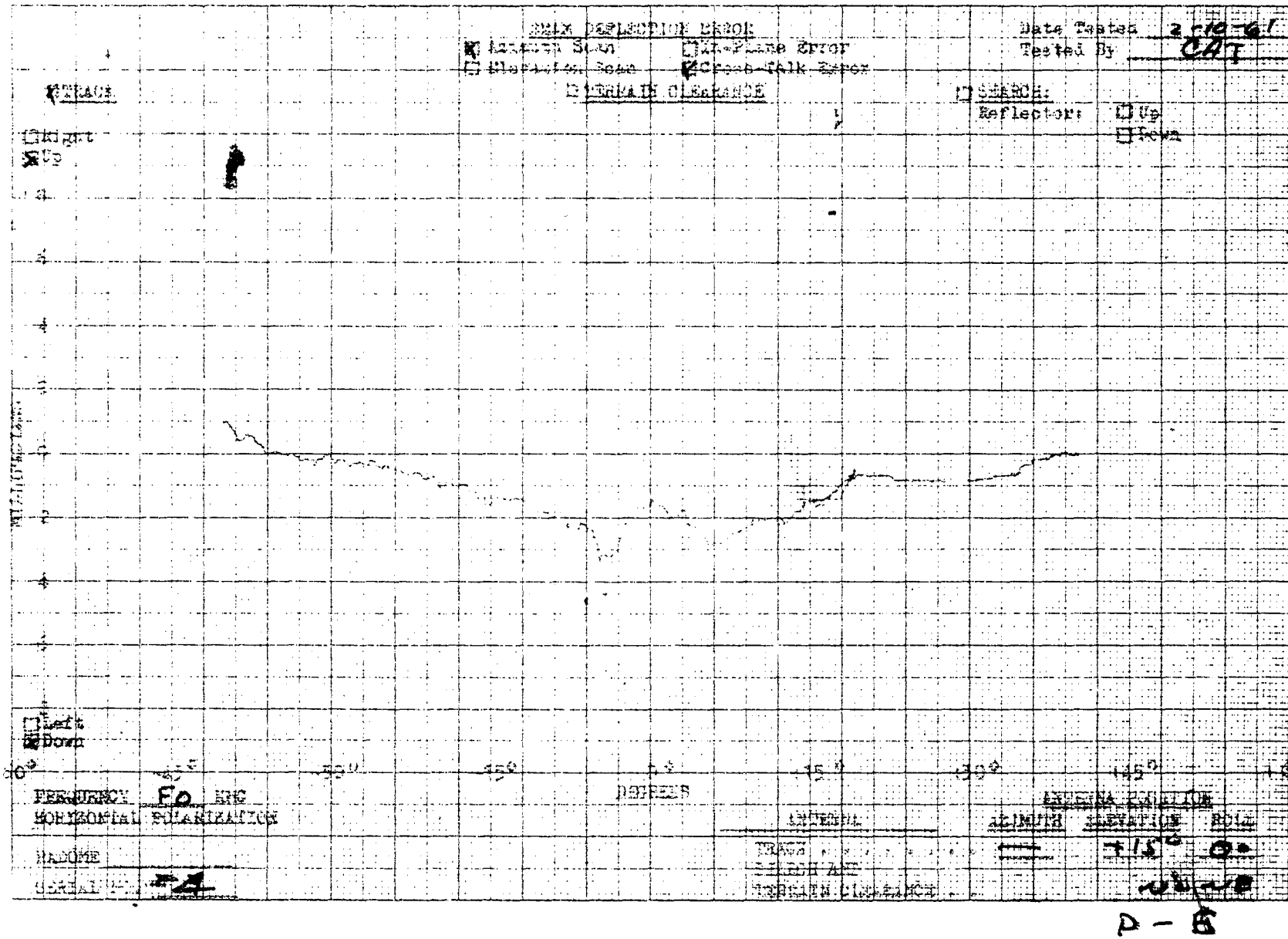
TRACK BORESIGHT ERROR

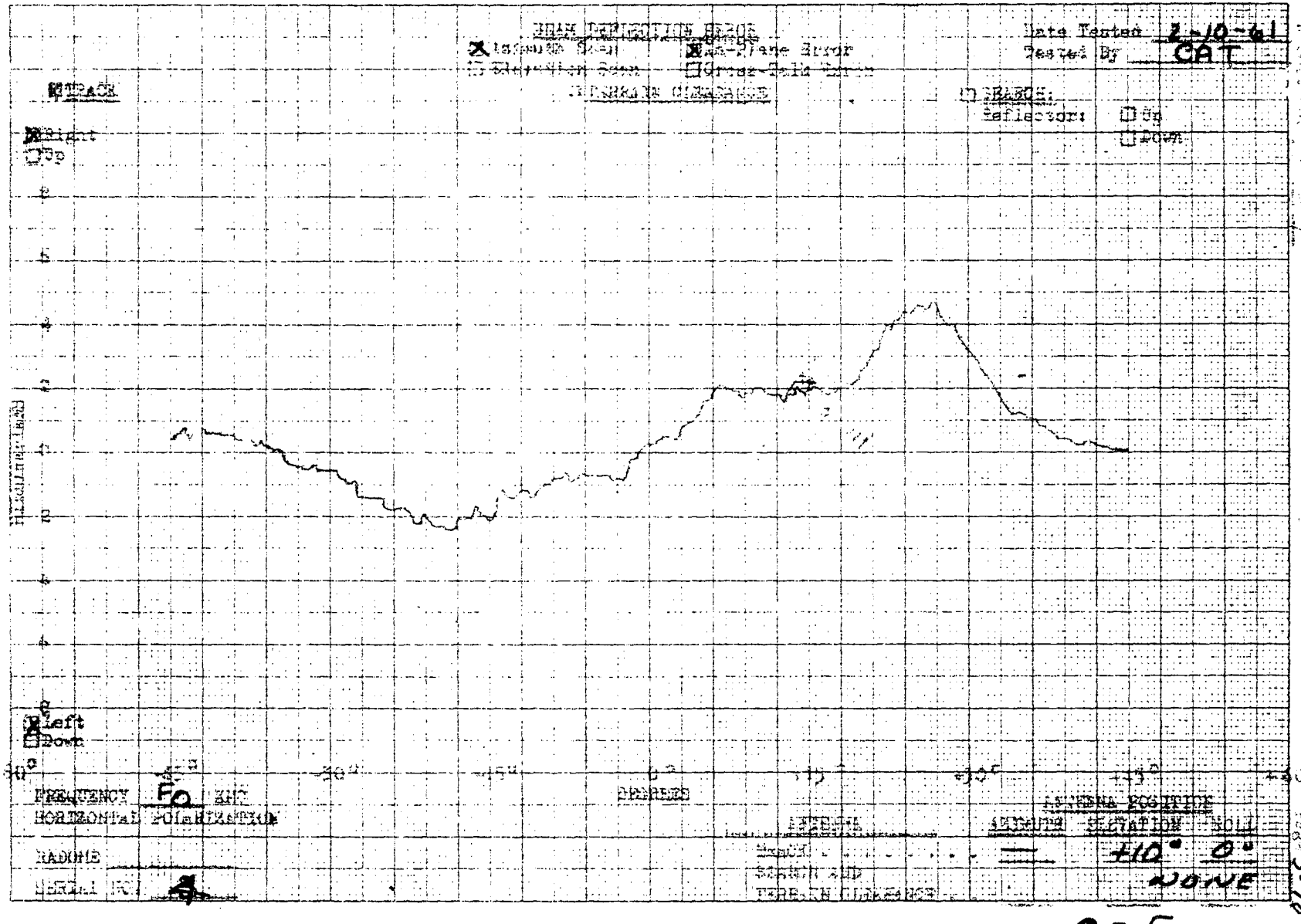
F_0 @ 0° ROLL


10 X 10 TO THE INCH
Date Tested 8-10-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 10 MC
HORIZONTAL POLARIZATION
RADOME 128BM005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN AVOIDANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
0°
Demo
No Radome

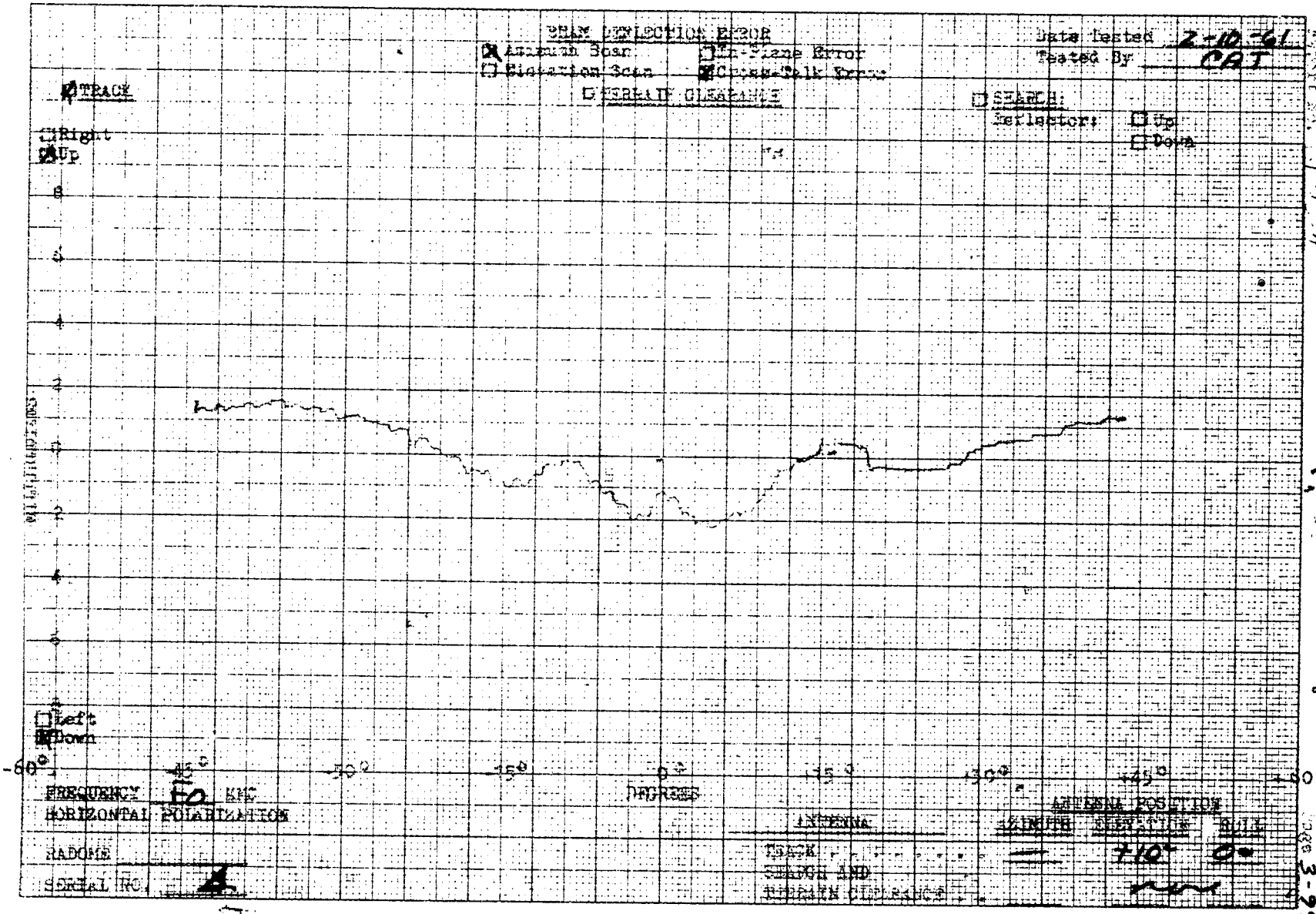

Date Tested 2-10-61
Tested By CAT
TRACK
Right
Up
Left
Down
-90°
-45°
-30°
+30°
+45°
+90°
FREQUENCY X_o KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
0°
None
GRU3-4
3-95
No Radome

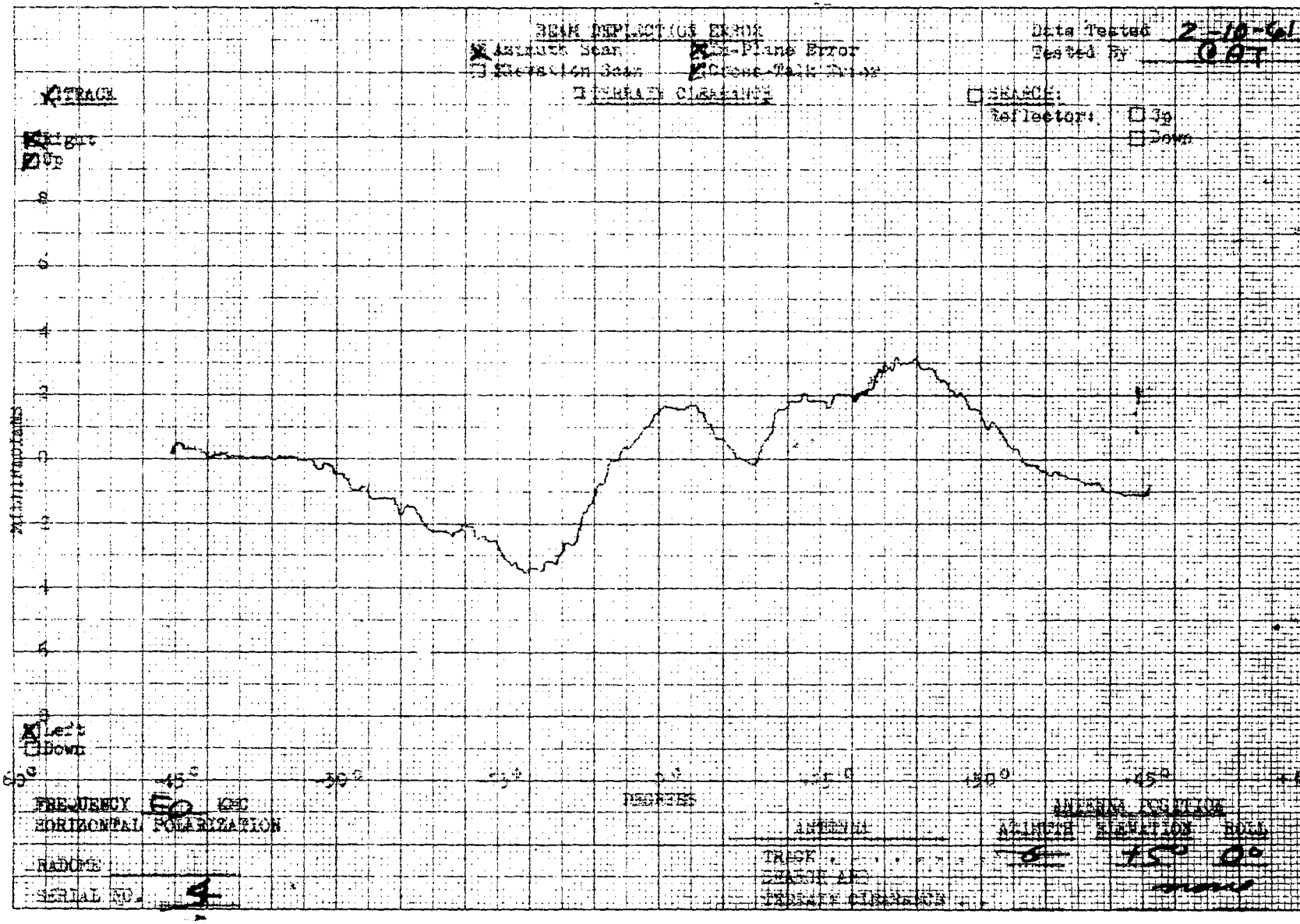

Data Taken 2-10-61
Tested By EAT
TRACK
Right
Up
Left
Down
Reflectors: Up
Down
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOMES
-45°
-30°
0°
+30°
+45°
DEGREES
ANTENNA POSITION
ELEVATION +16°
AZIMUTH 0°
P-E

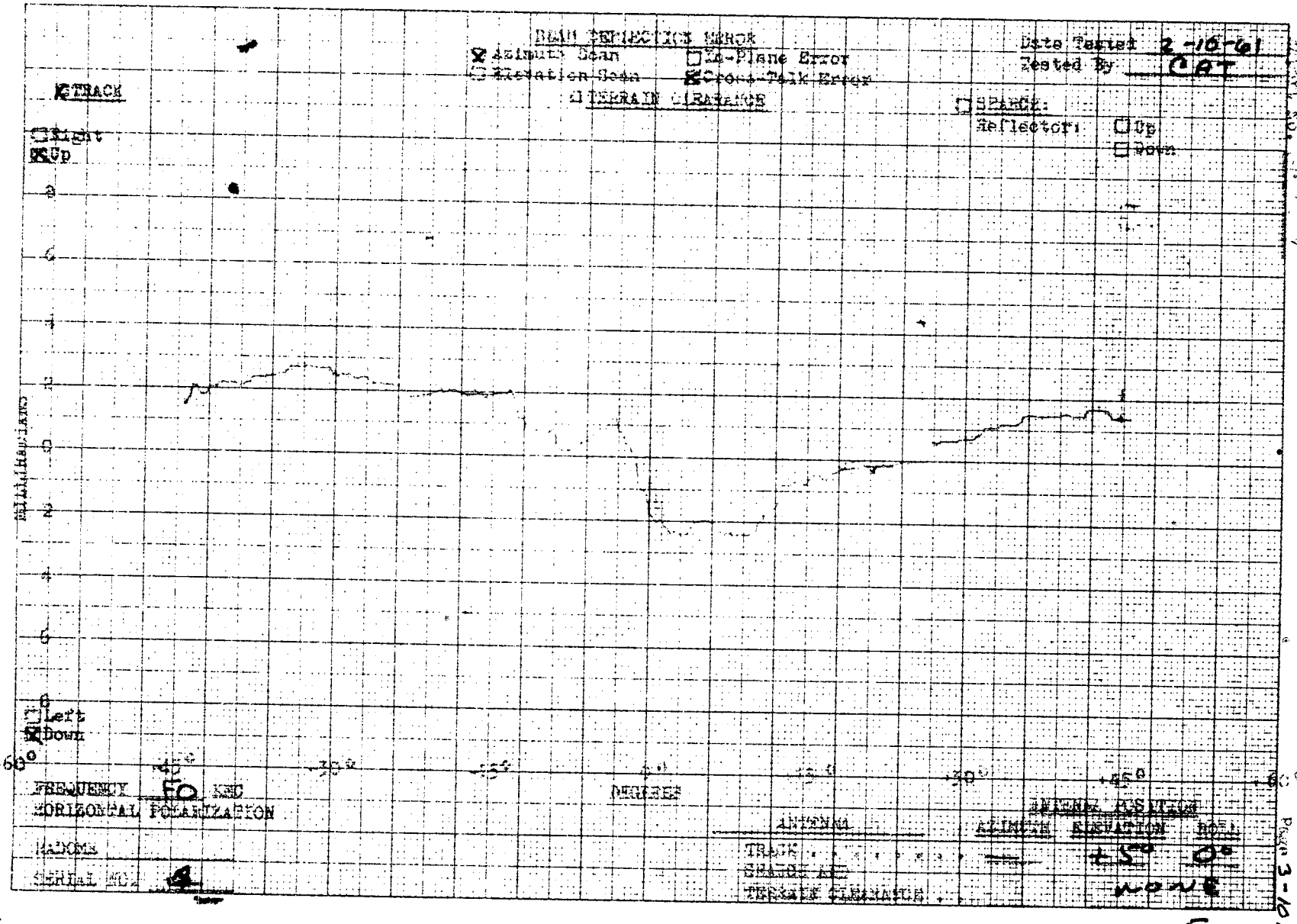

AZIMUTH DEFLECTION ERROR:
Azimuth Scan
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-10-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
AZIMUTH
ELEVATION
ROLL
+15°
0°
3-27
P - 5

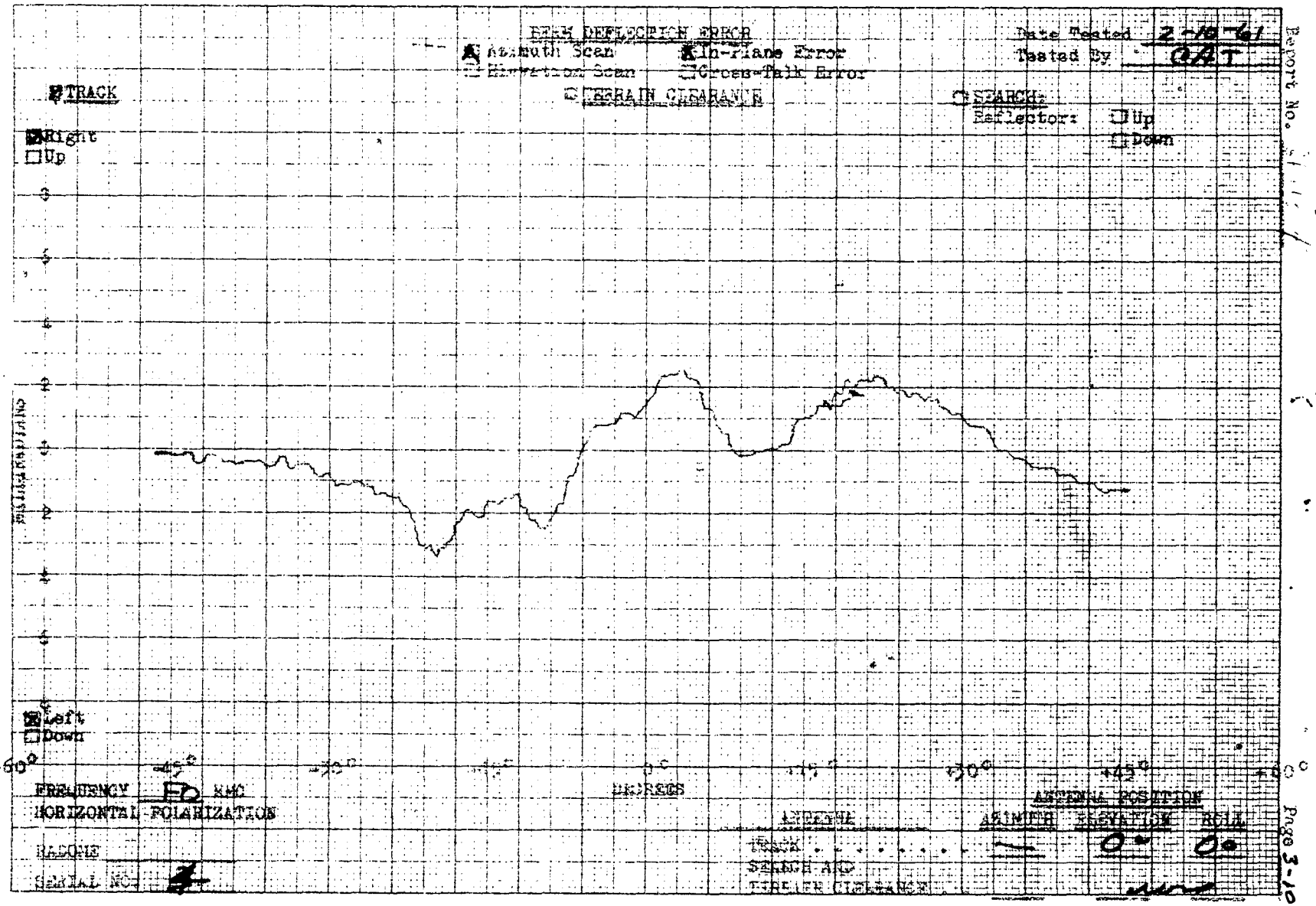

Date Tested 2-10-61
Tested By CAT
Left
Down
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
NONE
ANTENNA POSITION
ELEVATION DEFLECTION POLE
±10° 0°
NONE
P = E

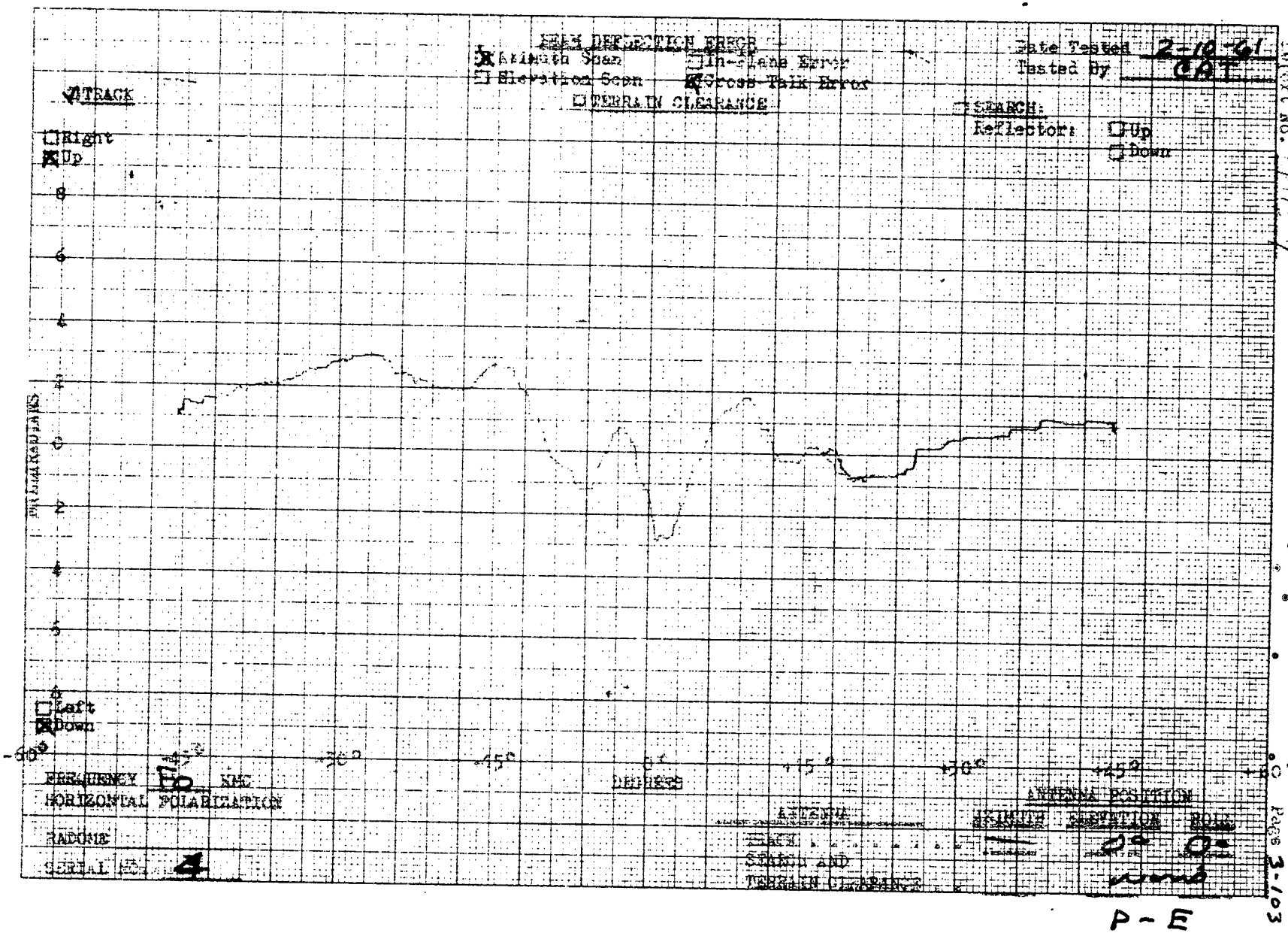
K&E 10 X 10 TO THE INCH 359-113

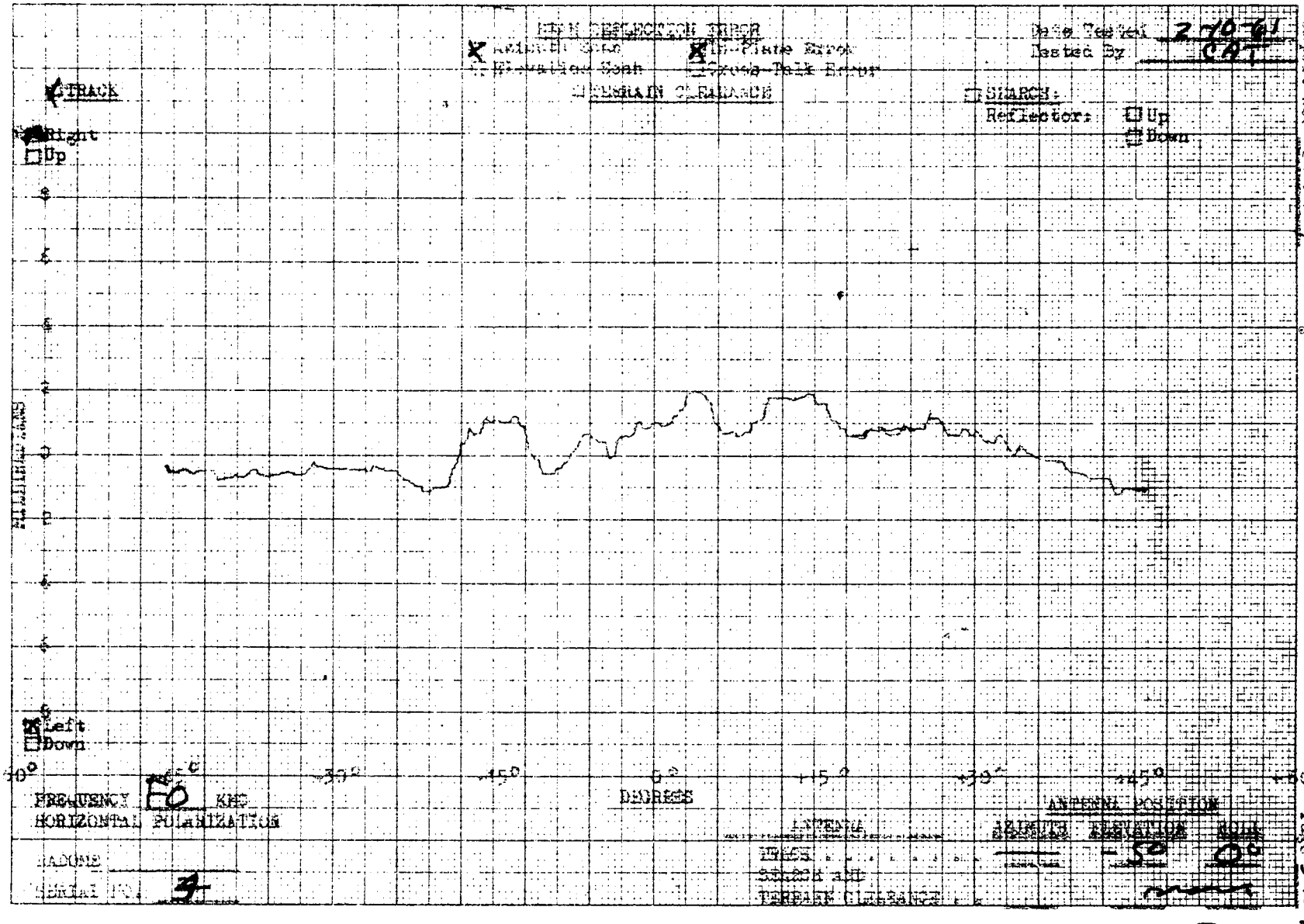



BEAM DEFLECTION ERROR
Data Tested 2-10-61
Tested By QAT
Azimuth Scan
E-Plane Error
Elevation Scan
Cross-Talk Drive
TRACK
TRACK CLEARANCE
CHANGE:
Reflector: Up
Down
Right
Up
Left
Down
Amplitude in Decibels
8
6
4
2
0
1
2
3
-45°
-30°
-15°
0°
+15°
+30°
+45°
DEGREES
FREQUENCY 50 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
CHANGE AT
PRIMARY CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° +5° 0°
Page 3-100
P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-10-61
Tested By CAT
TRACK
Right
Up
Left
Down
SPARC:
Reflector: Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SPARC AT
TERRAIN ELEVATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
+5°
0°
none
P-E
Page 3-101


ERR DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-10-61
Tested By QAT
TRACK
Right
Up
SEARCH
Reflectors: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FD MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° 0°
Report No.
Page 3-102
P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-10-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-60°
-30°
-45°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 10.4 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH DEFLECTION 20 mils
ELEV. 0
Page 3-103
P-E


Date Tested 2-10-61
Tested By CRT
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY E6 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 3
ANTENNA
AZIMUTH ELEVATION ROLL
-52 0°
Page 3-10-4
P-E

10 X 10 TO THE INCH 359-11G

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

Data Tested 2-10-61

Tested By CAT

☐ SEARCH:

Reflector: ☐ Up ☐ Down

☒ TRACK

☐ Right

☒ Up

MILLIRADIANS

8 6 4 2 0 2 4 6 8

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 60 KMC

HORIZONTAL POLARIZATION

RADOME

Serial No. 4

ANTENNA

TRACK

SEARCH AND TERRAIN CLEARANCE

ANTENNA POSITION

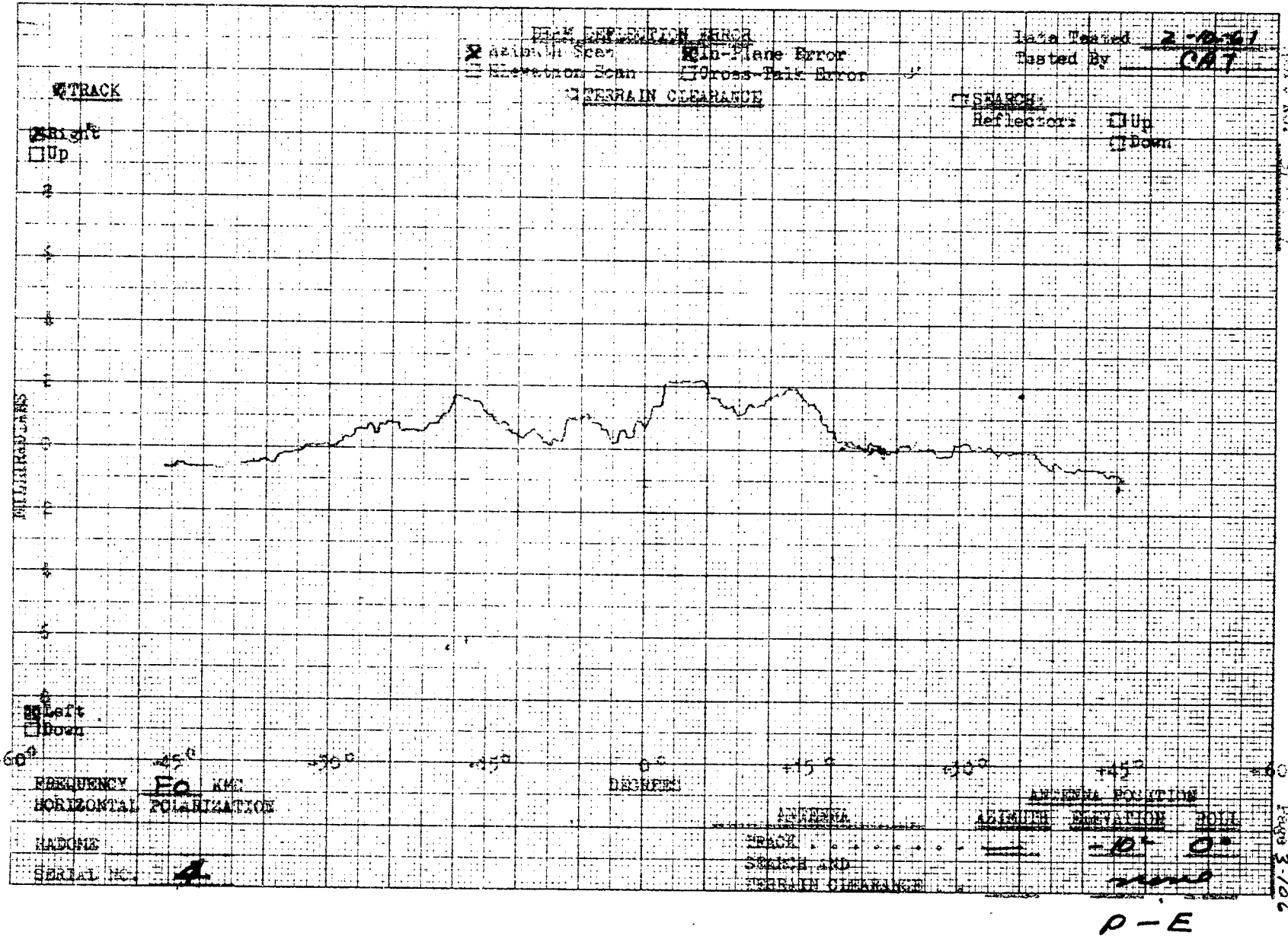
AZIMUTH ELEVATION ROLL

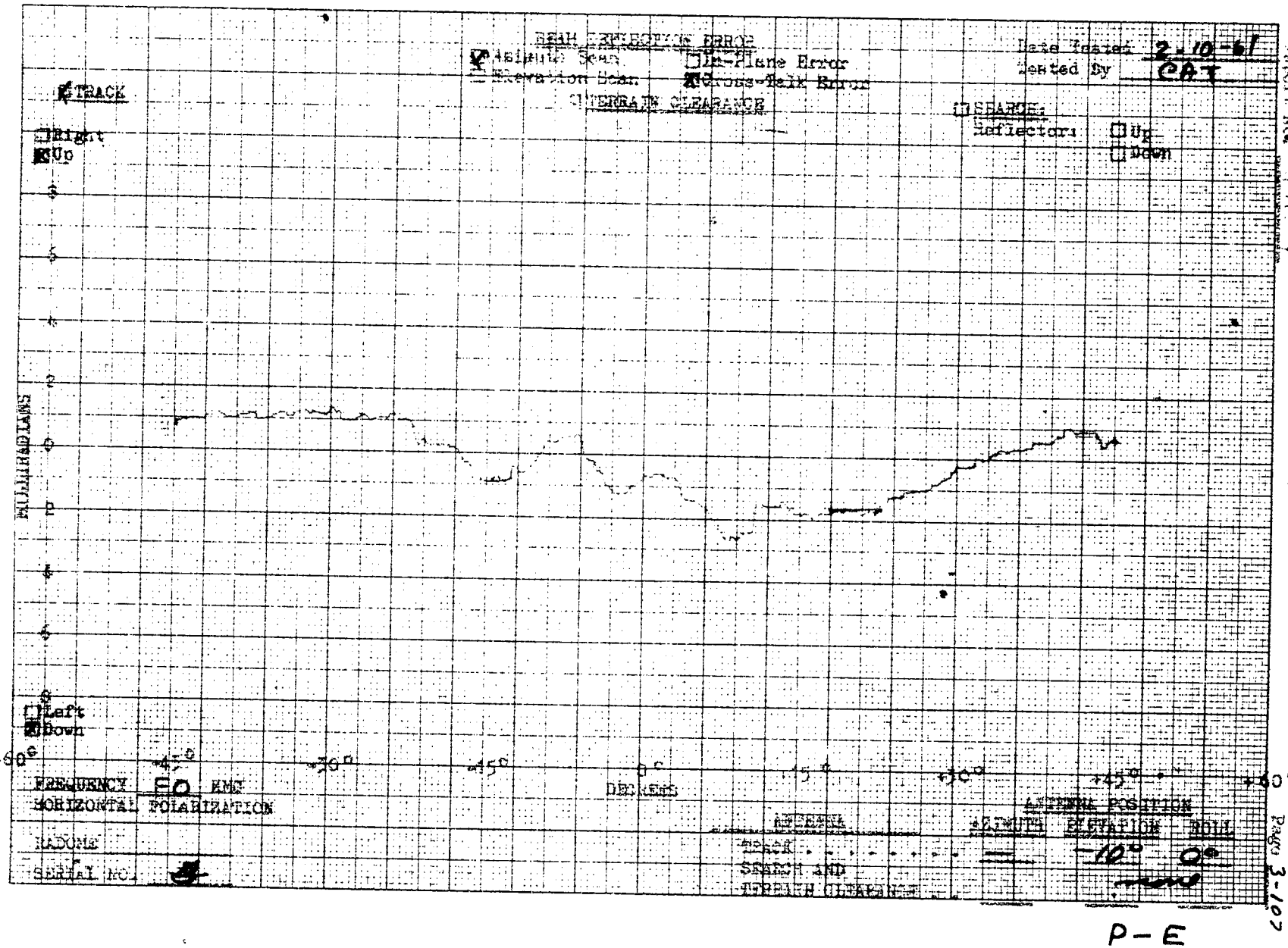
-5° 0°

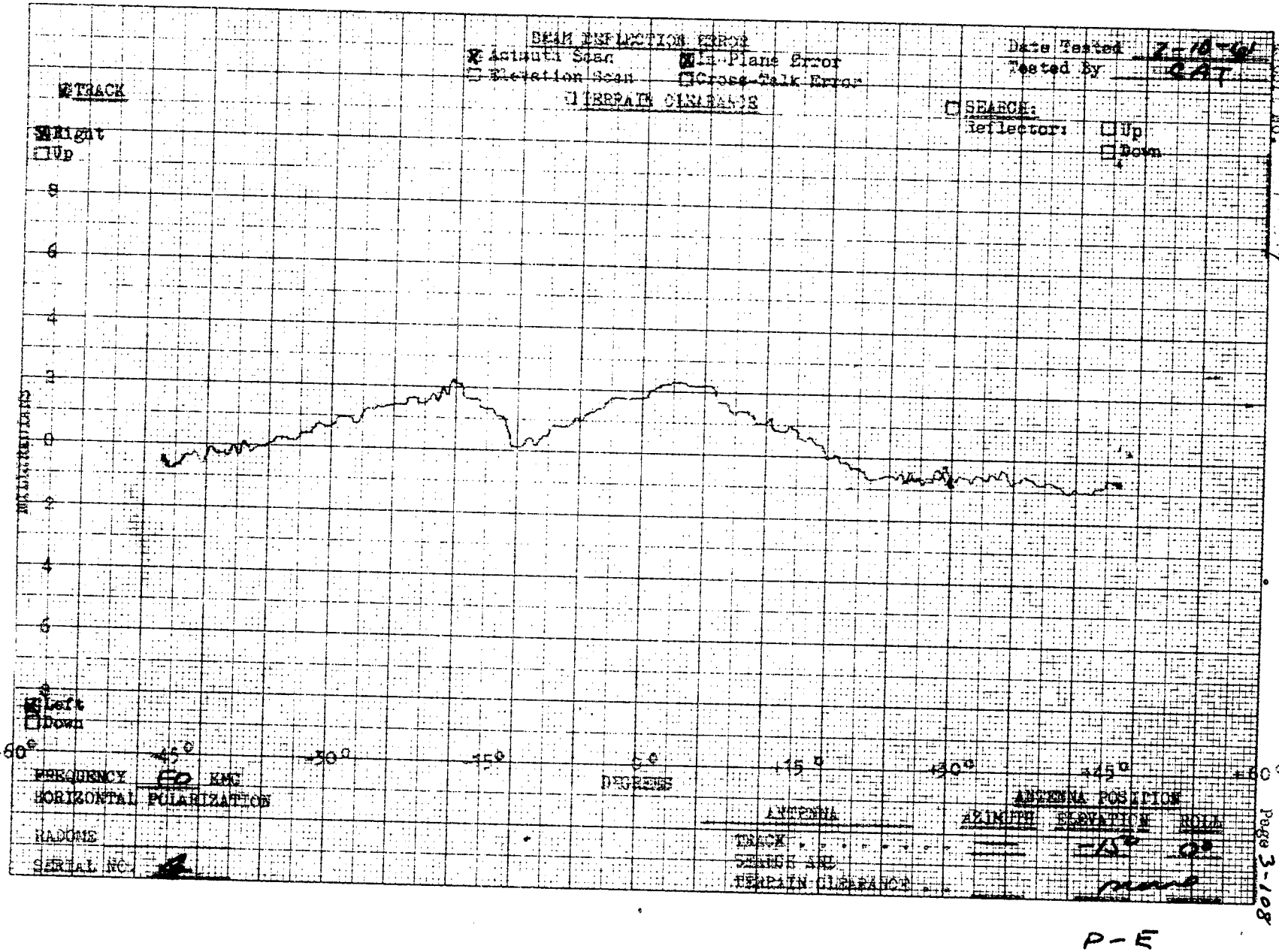
Report No. C-11-

Page 2-105

2-5


TRACK
Right
Up
Left
Down
MILLIRADIANS
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
Data Tested 2-10-61
Tested By CAT
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Pair Error
TERRAIN CLEARANCE
SEARCH
Reflectors: Up
Down
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK -10° 0°
SEARCH AND TERRAIN CLEARANCE
P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Axis Error
TERRAIN CLEARANCE
Date Tested: 2-10-61
Tested By CAT
SEARCH
Reflectors: Up
Down
TRACK
Right
Up
Left
Down
MILLIRADIANS
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FO MMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° 0°
SEARCH AND
TERRAIN CLEARANCE
SERIAL NO.
Page 3-107
P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
H-Plane Error
Cross-Talk Error
REPEAT CLEARANCE
Date Tested 2-18-64
Tested by CAT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
MILLIAMPERES
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 60 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA
TRACK
SEARCH AND
REPEAT CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-45° 0°
P-E

BEAM DEFLECTION ERROR

Date Tested 2-10-61

Tested By CAT

☒ Azimuth Beam ☐ Roll-Plane Error

☐ Elevation Beam ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

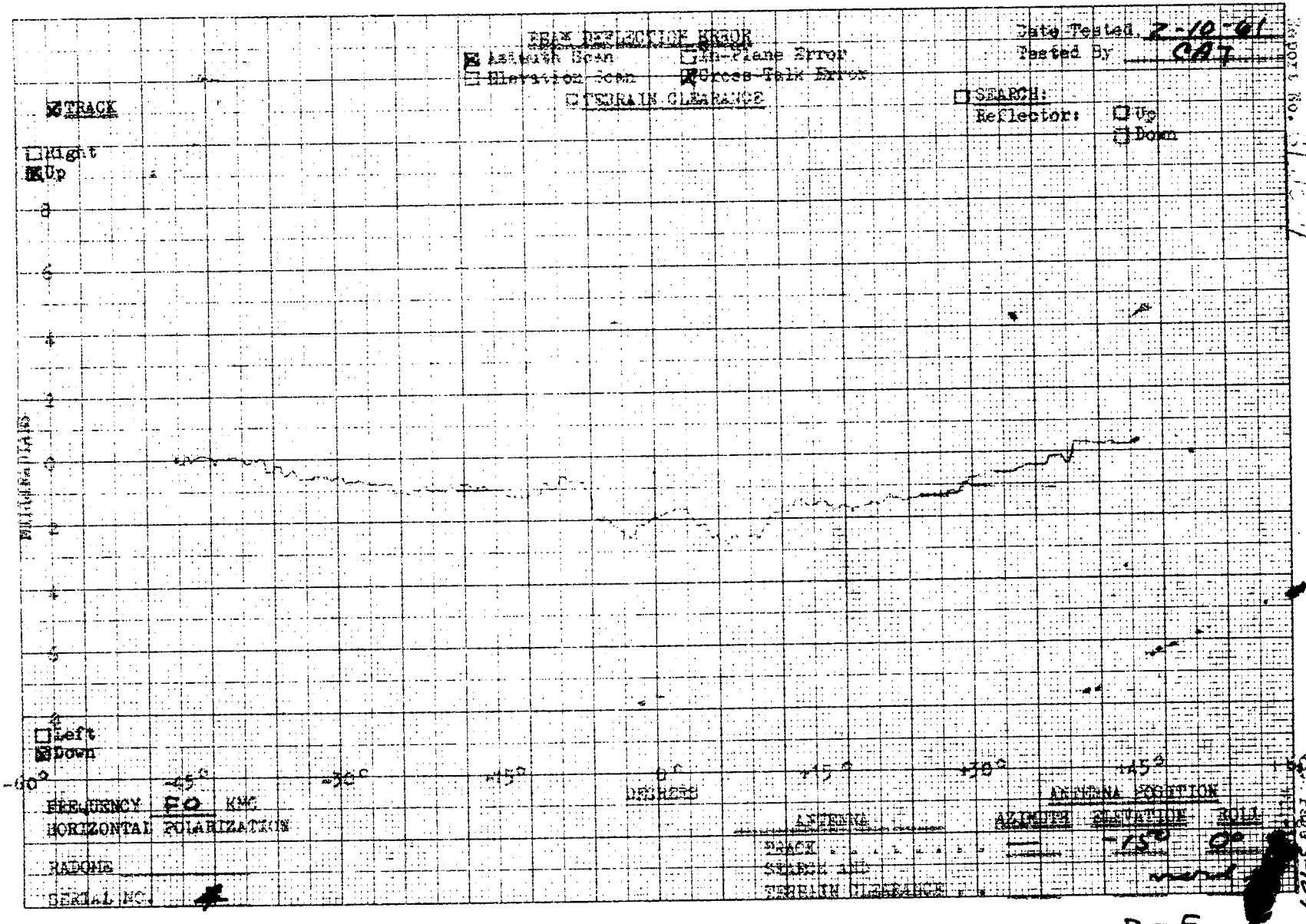
☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



☐ Left

☒ Down

FREQUENCY 60 KMC

HORIZONTAL POLARIZATION

RADOME

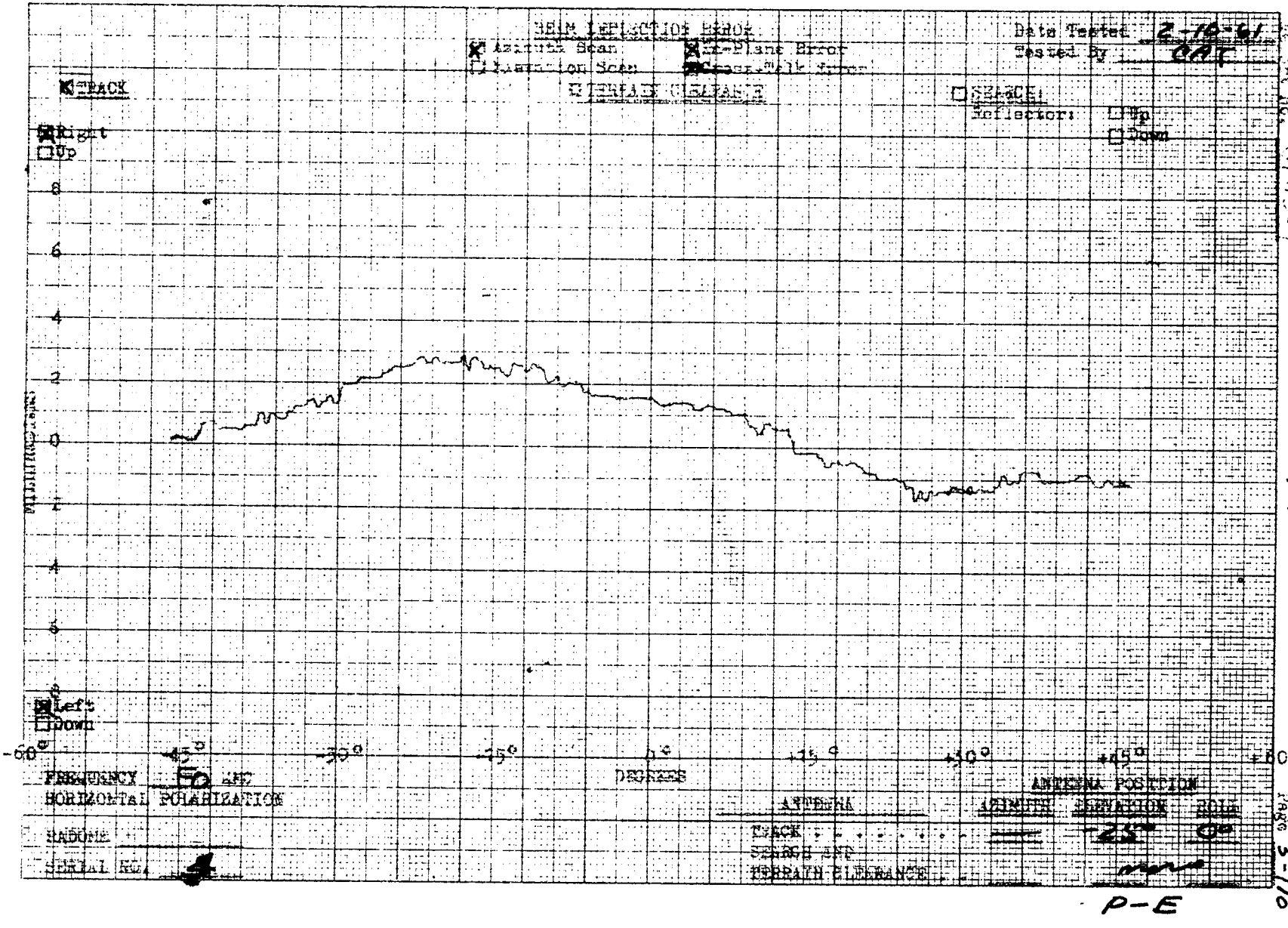
SERIAL NO.

ANTENNA POSITION

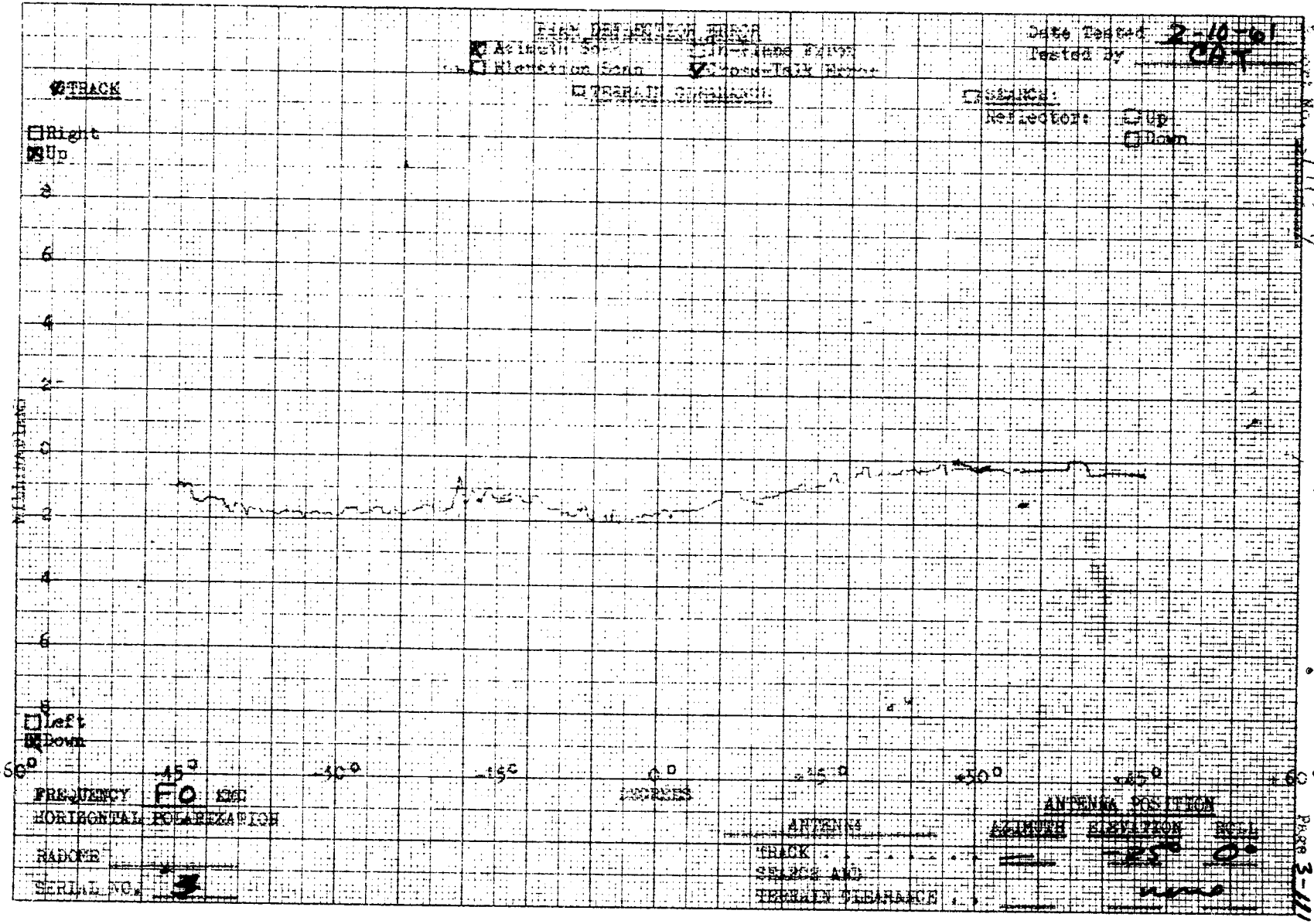
	AZIMUTH	ELEVATION	ROLL
ANTENNA			
BORE		-7.5°	0°
SEARCH			
TERRAIN CLEARANCE			

P-E

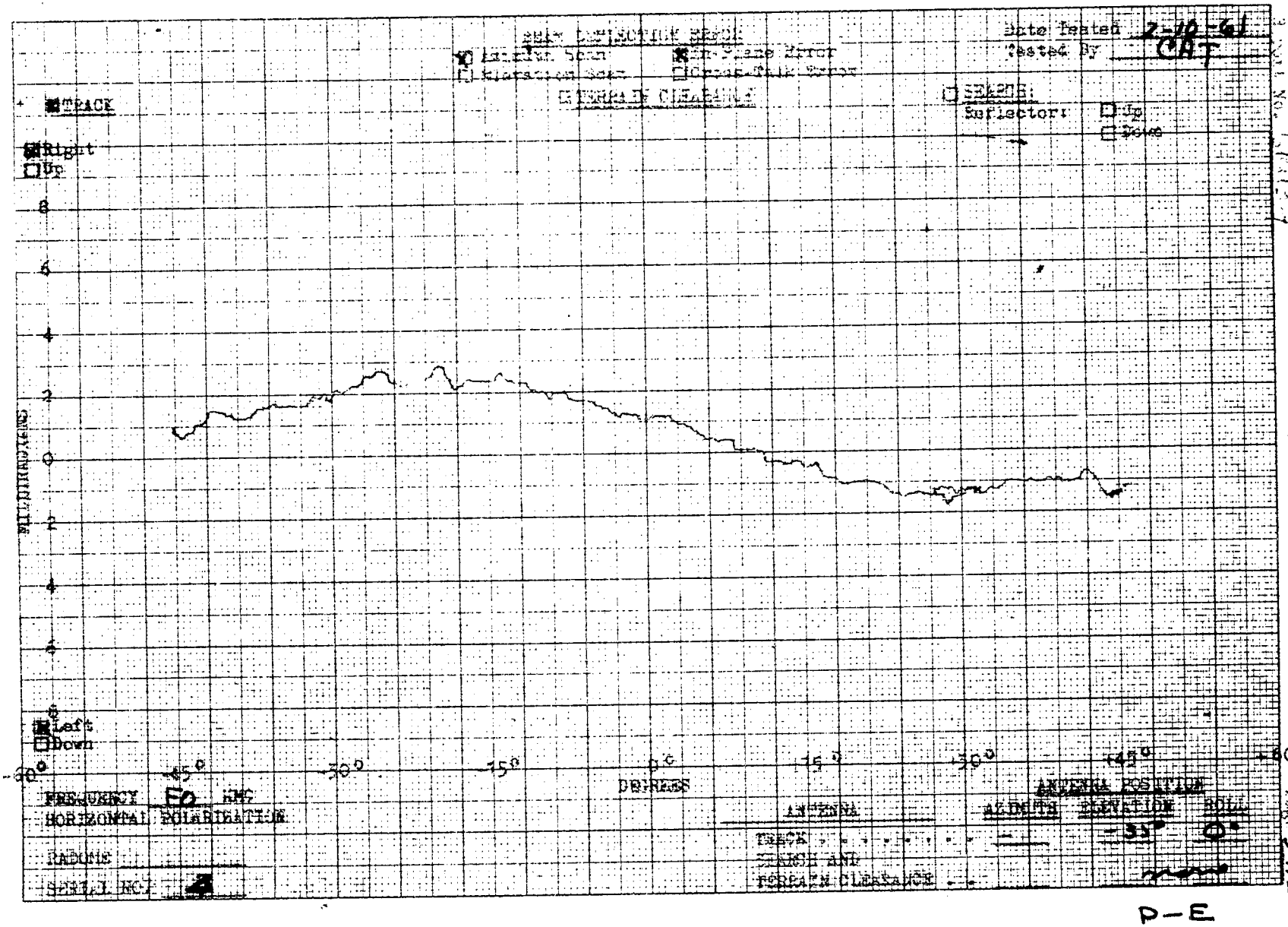
Page 3-109

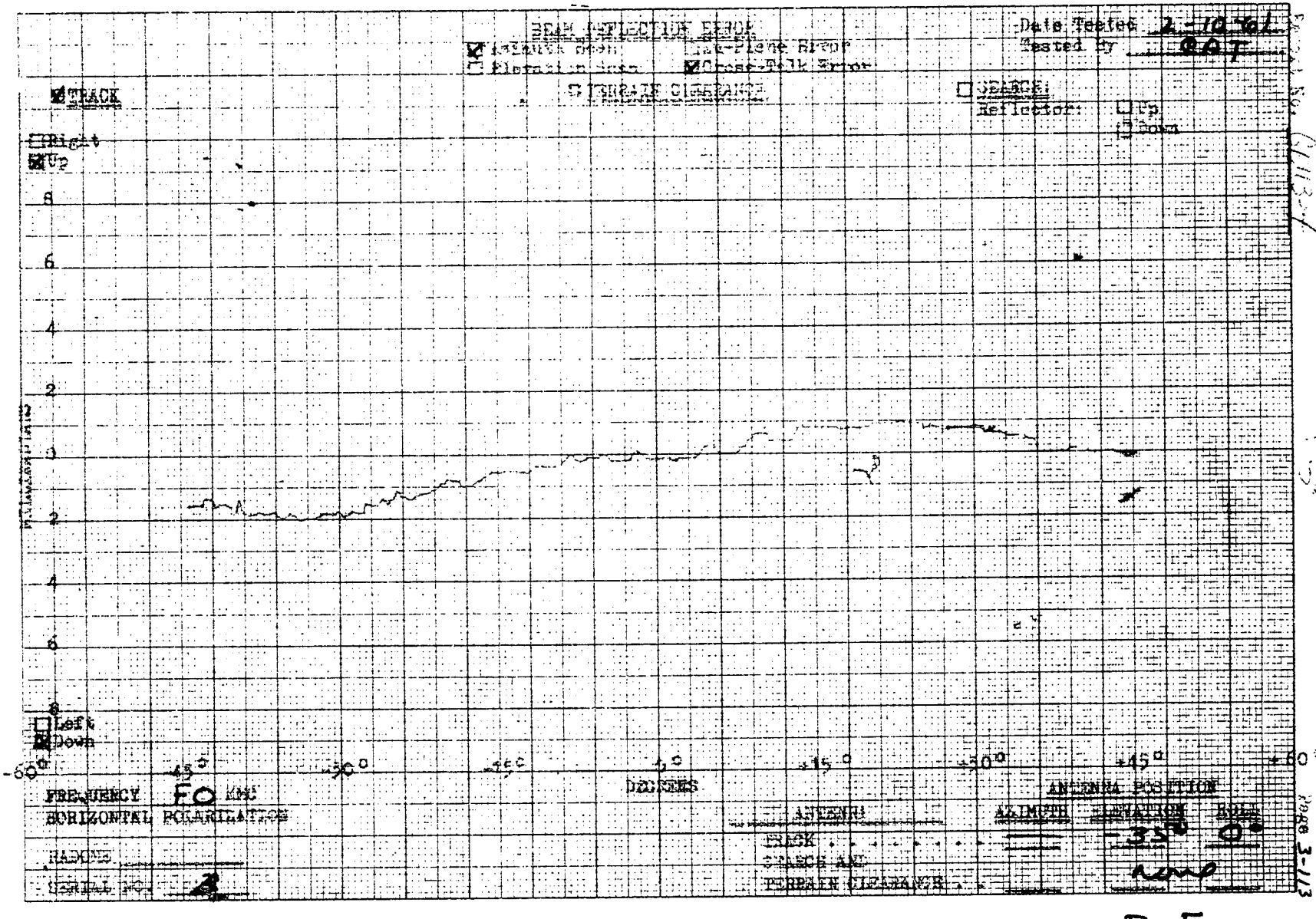

BEAM DEFLECTION ERROR
Azimuth Scan
X-Plane Error
TRACK
Right
Up
Left
Down
Date Tested 2-10-61
Tested By
SEARCH
Reflector: Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK
SEARCH CNT
HORIZON PLEDGANCE
+25°
0°
P-E

10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.

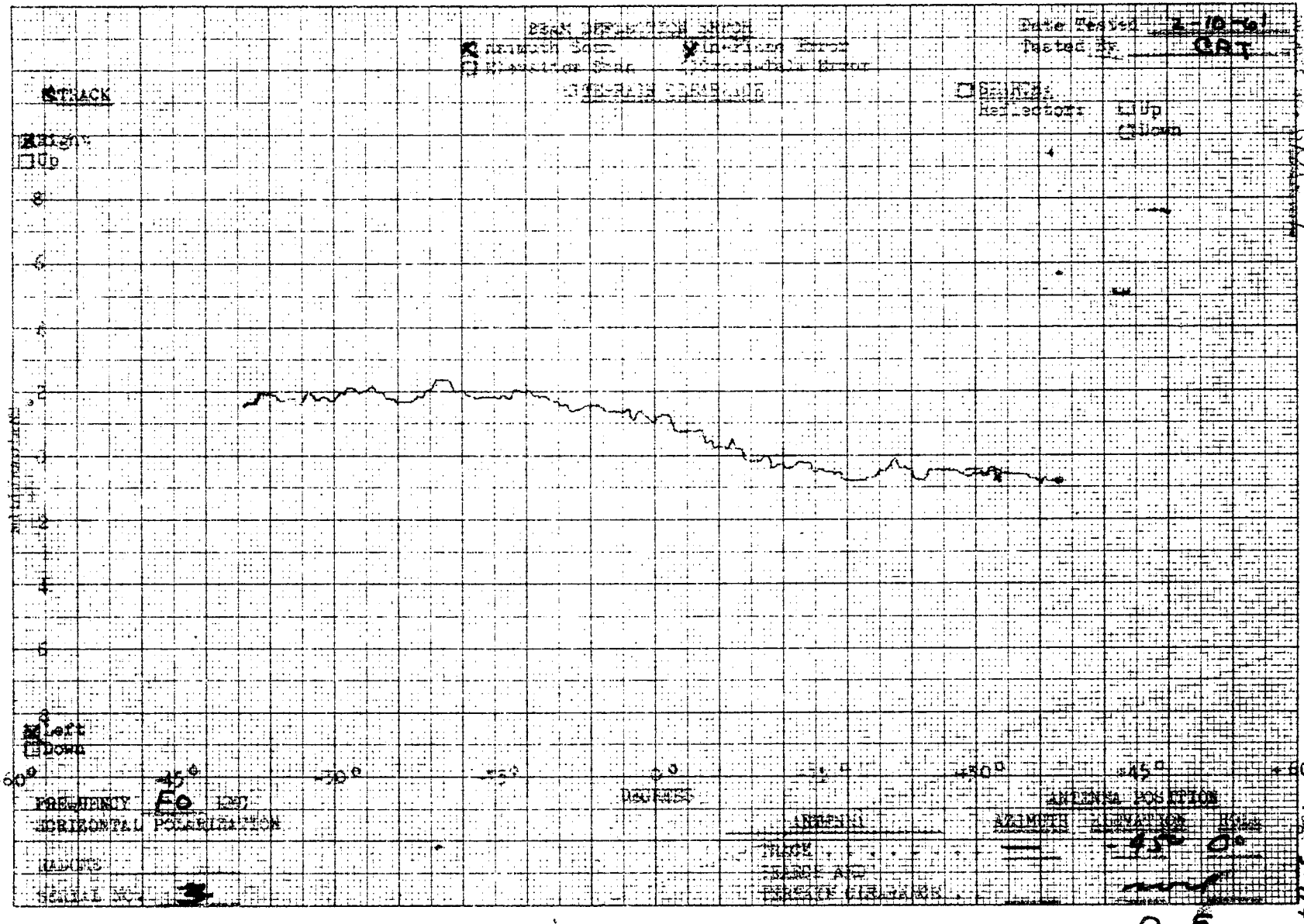


KEUFFEL & ESSER CO. 10 X 10 TO THE ½ INCH 359-110




10 X 10 TO THE INCH 359-113
BEAM REFLECTION ERROR
Date Tested 2-10-61
Tested by RAT
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
Cross-Plane Error
Cone-Silk Error
8
6
4
2
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
ANTENNA POSITION
AZIMUTH
ELEVATION
RUDE
-35°
0°
P-E

K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.



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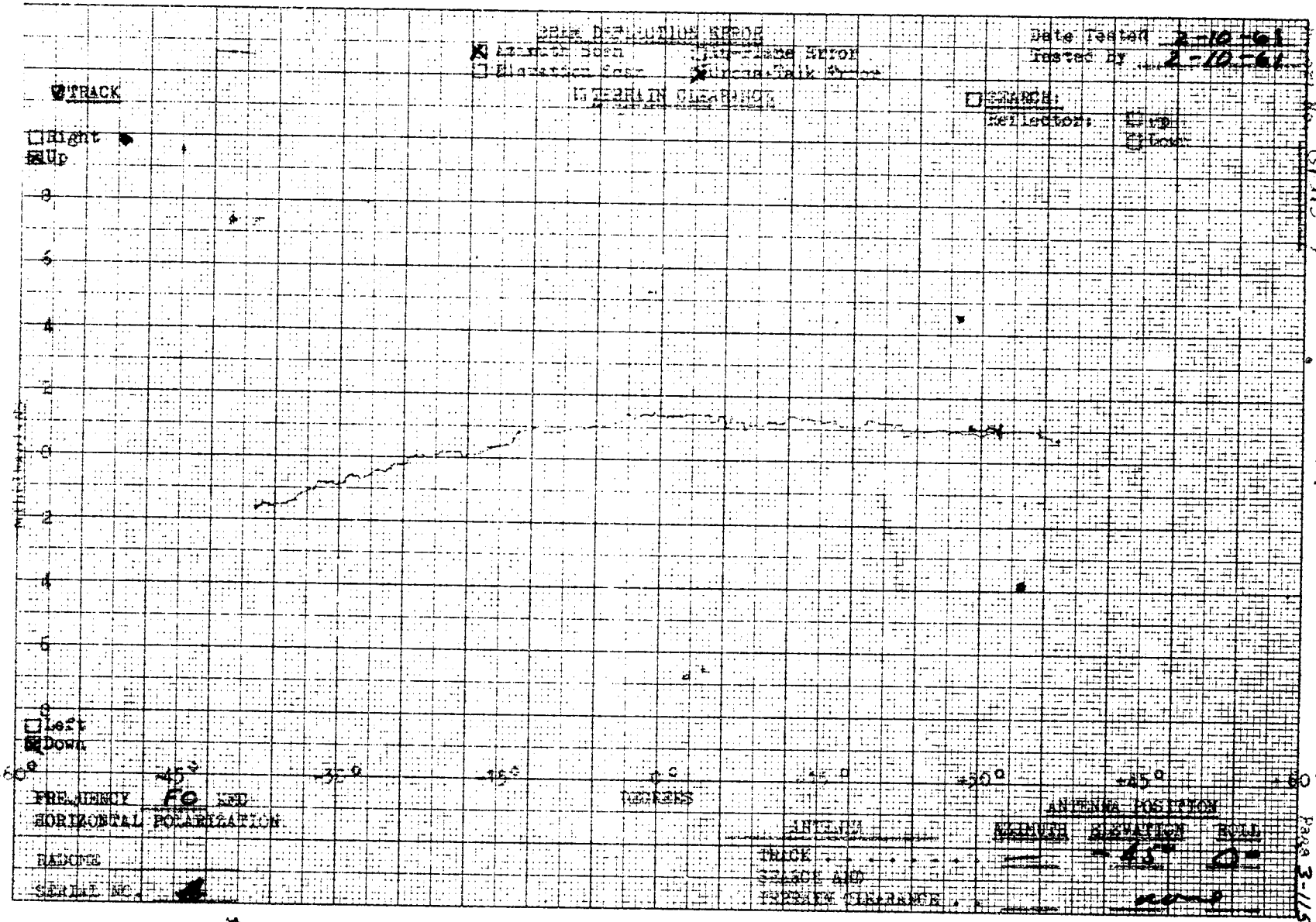
-P-E

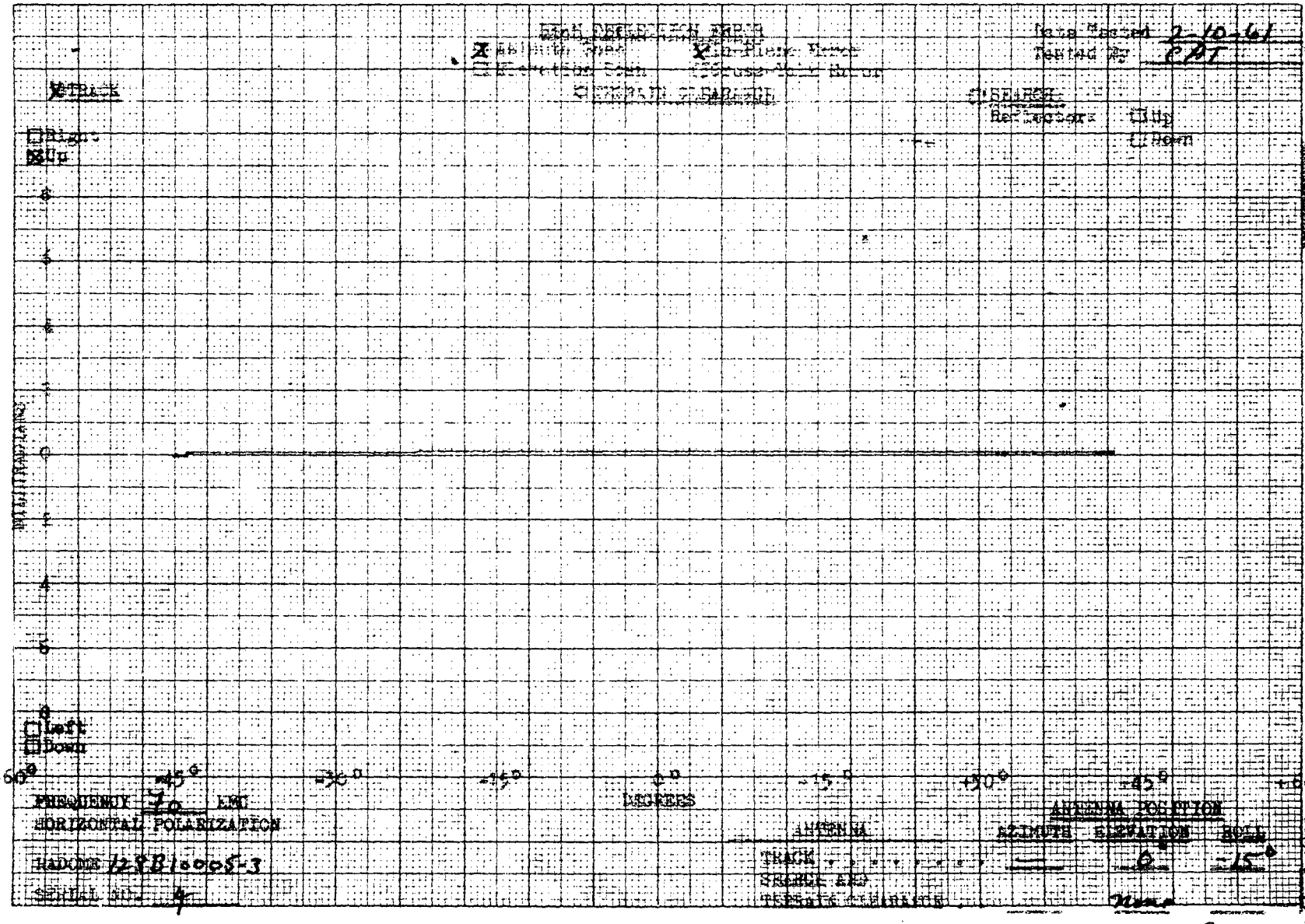
10 X 10 TO THE ½ INCH 359-110



SECTION 34

TRACK BORESIGHT ERROR

F_0 @ -15° ROLL



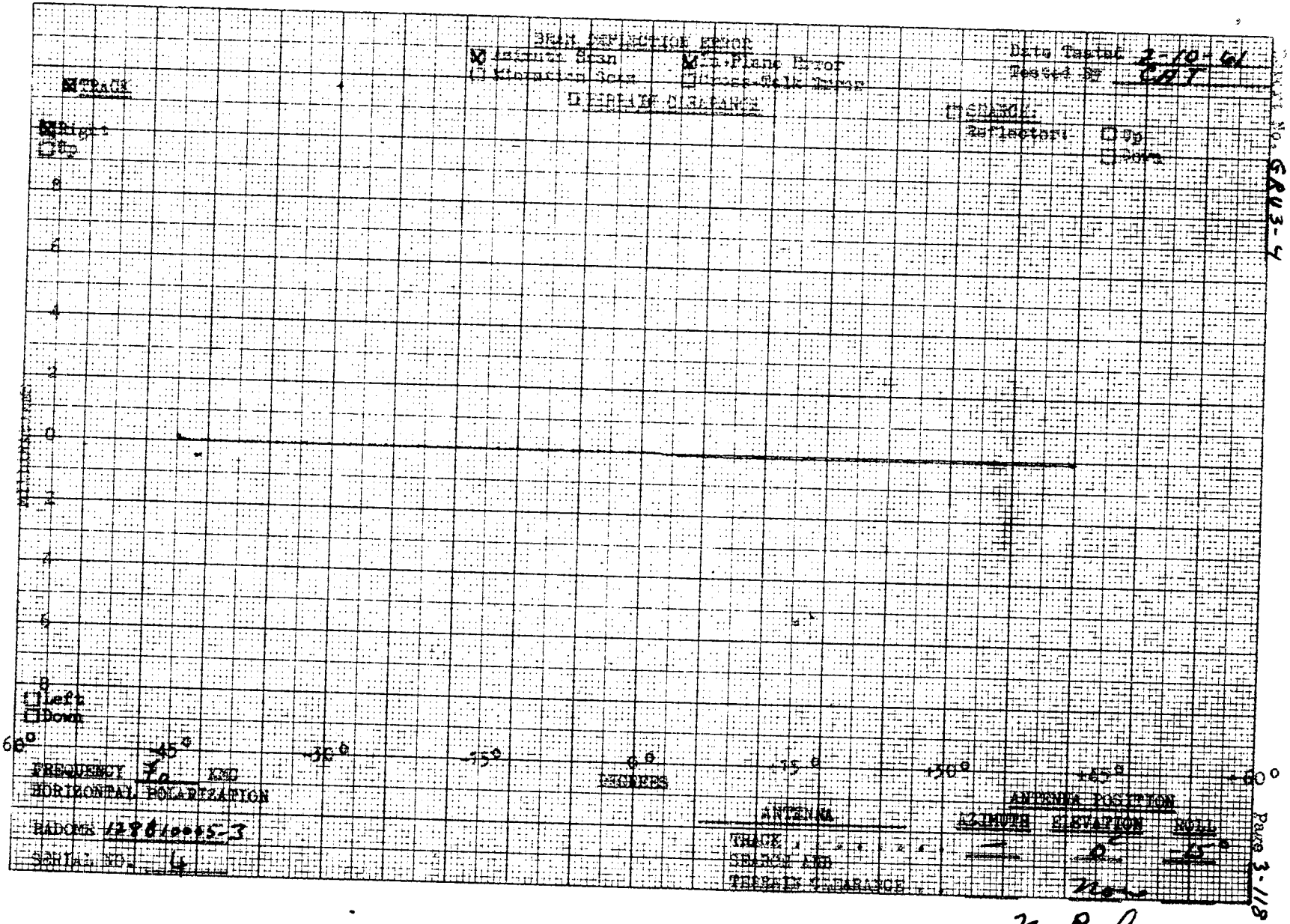
Test Record 2-10-61
Test No. CAT

GAU3-4

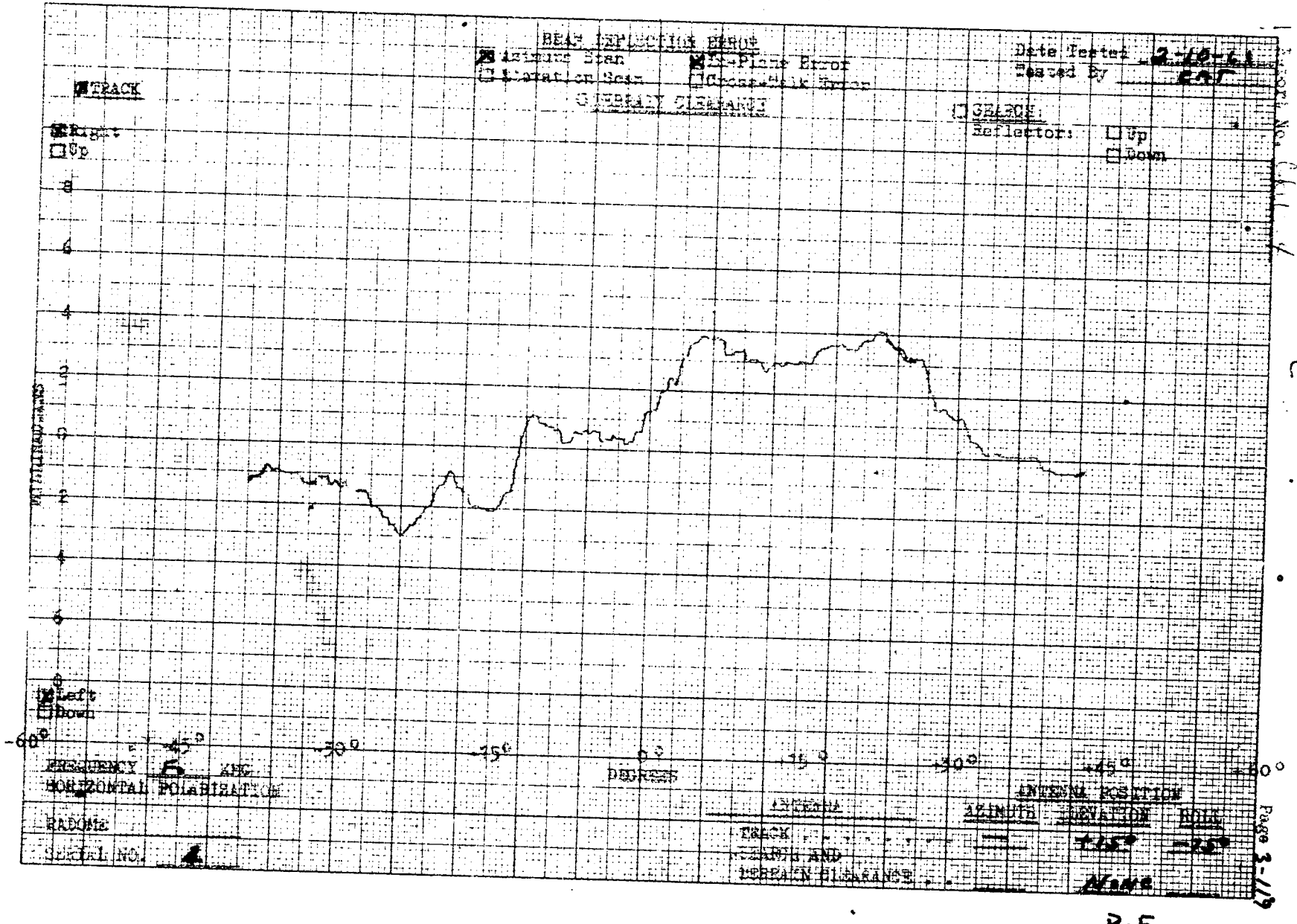
Page 3-117

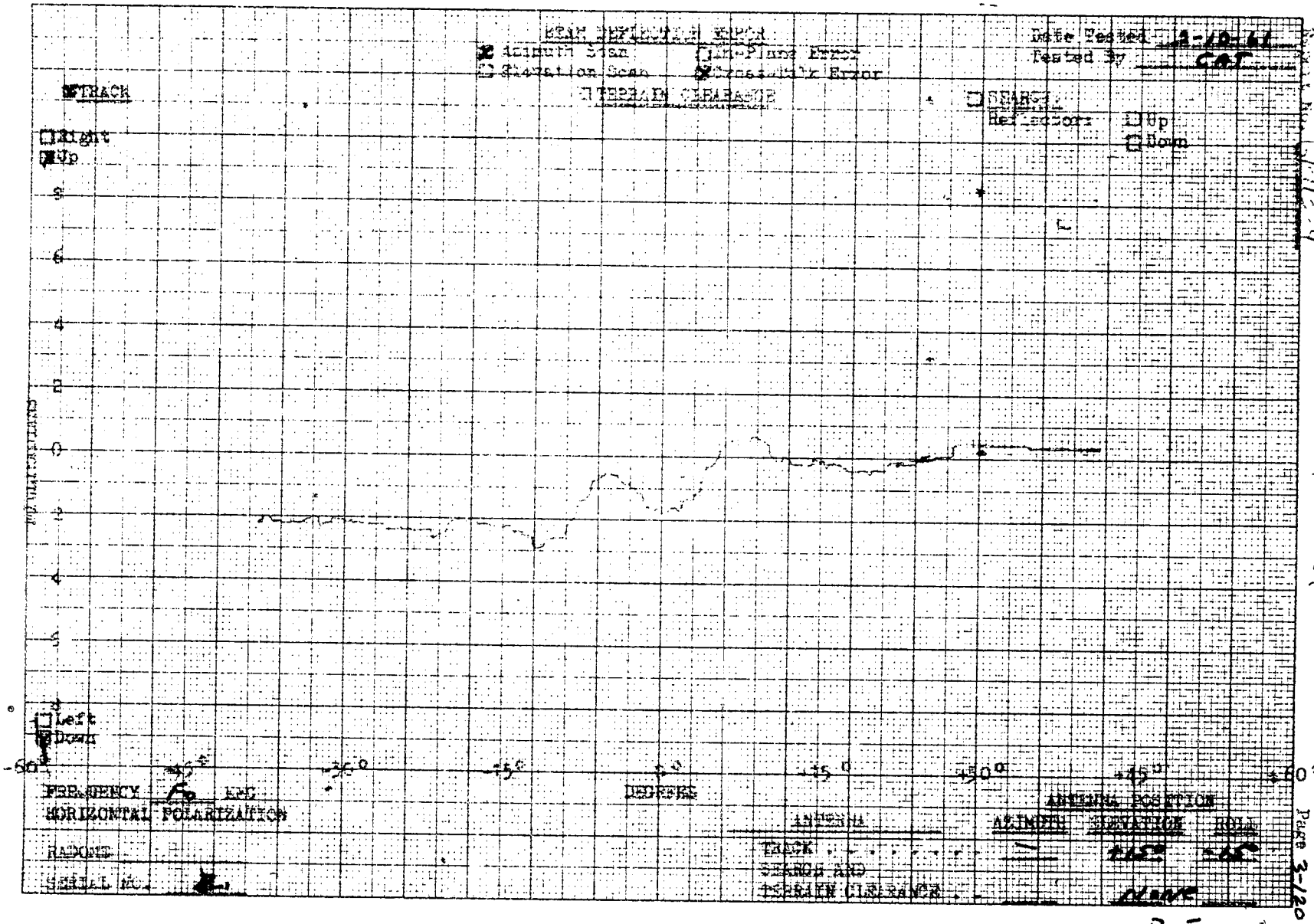
No Radome

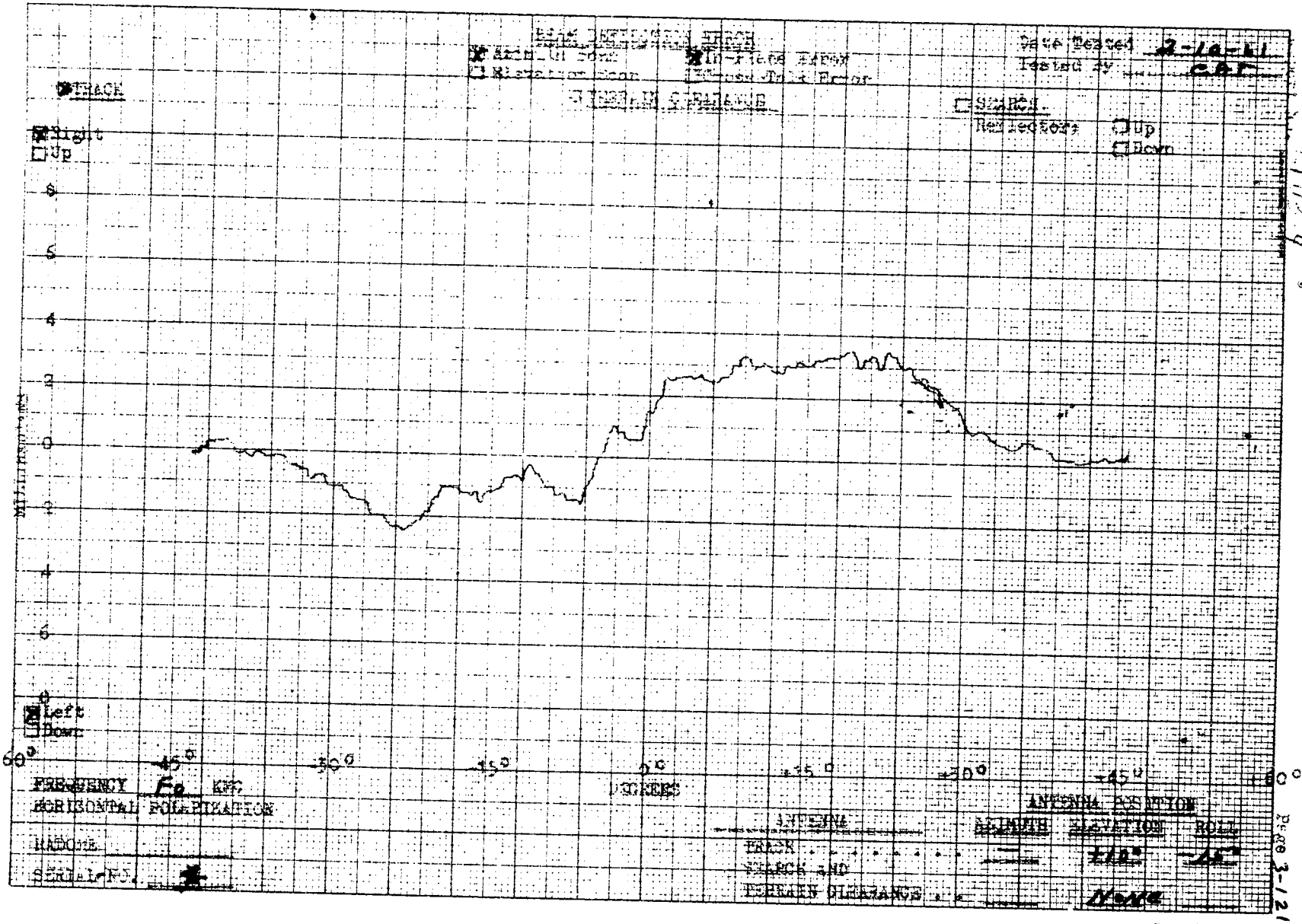
10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.

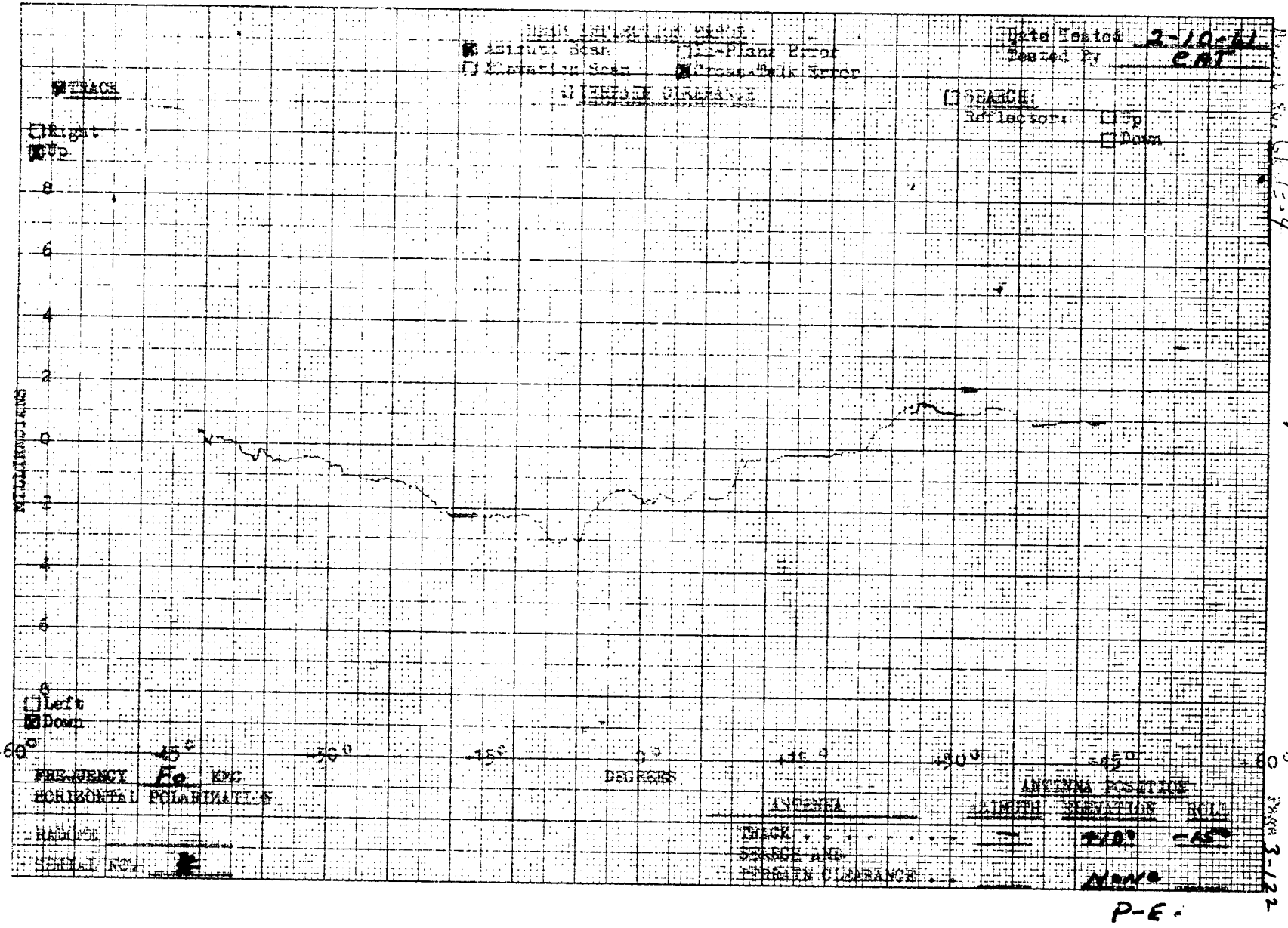


10 X 10 TO THE INCH
KEUFFEL & ESSER CO.

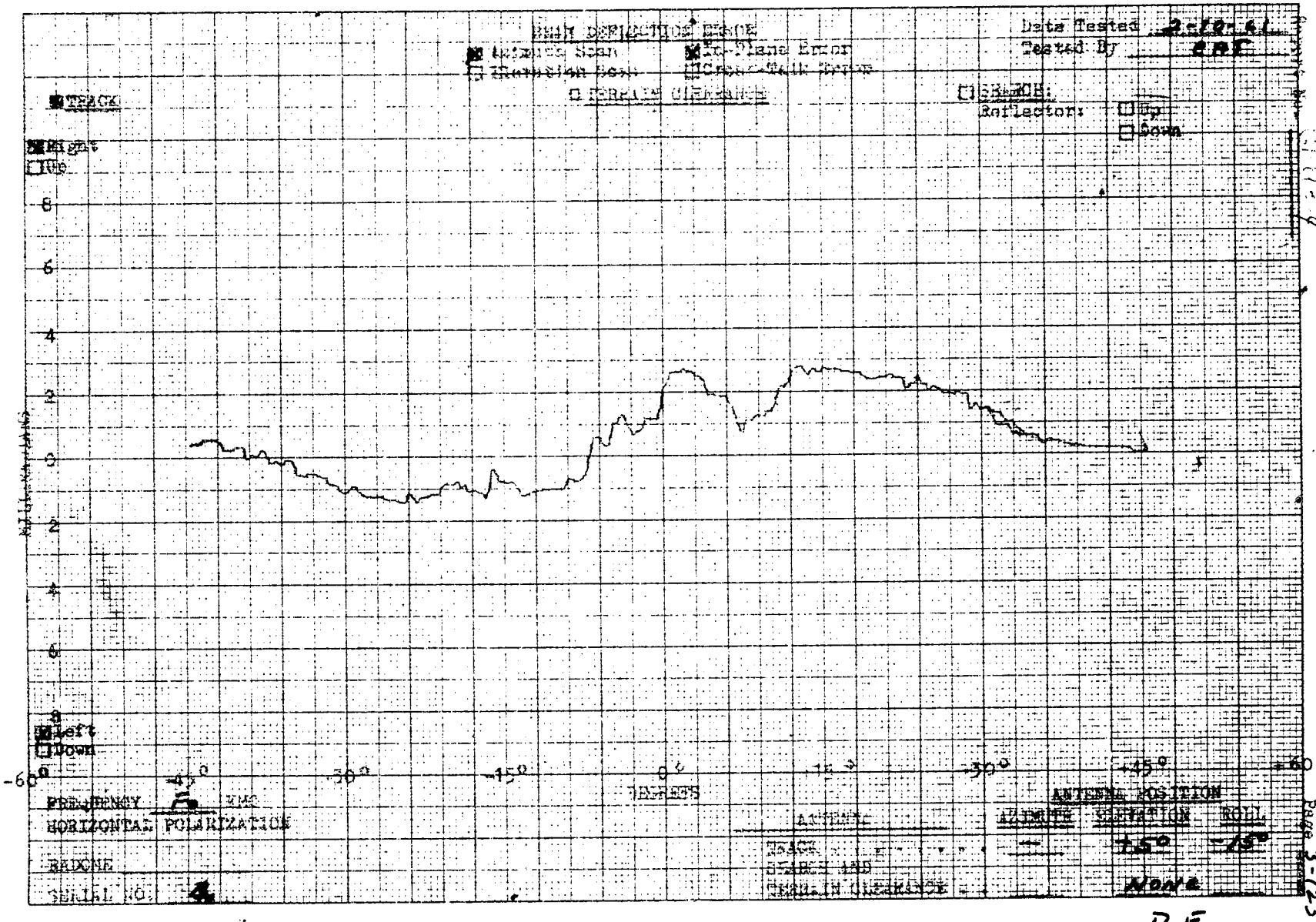


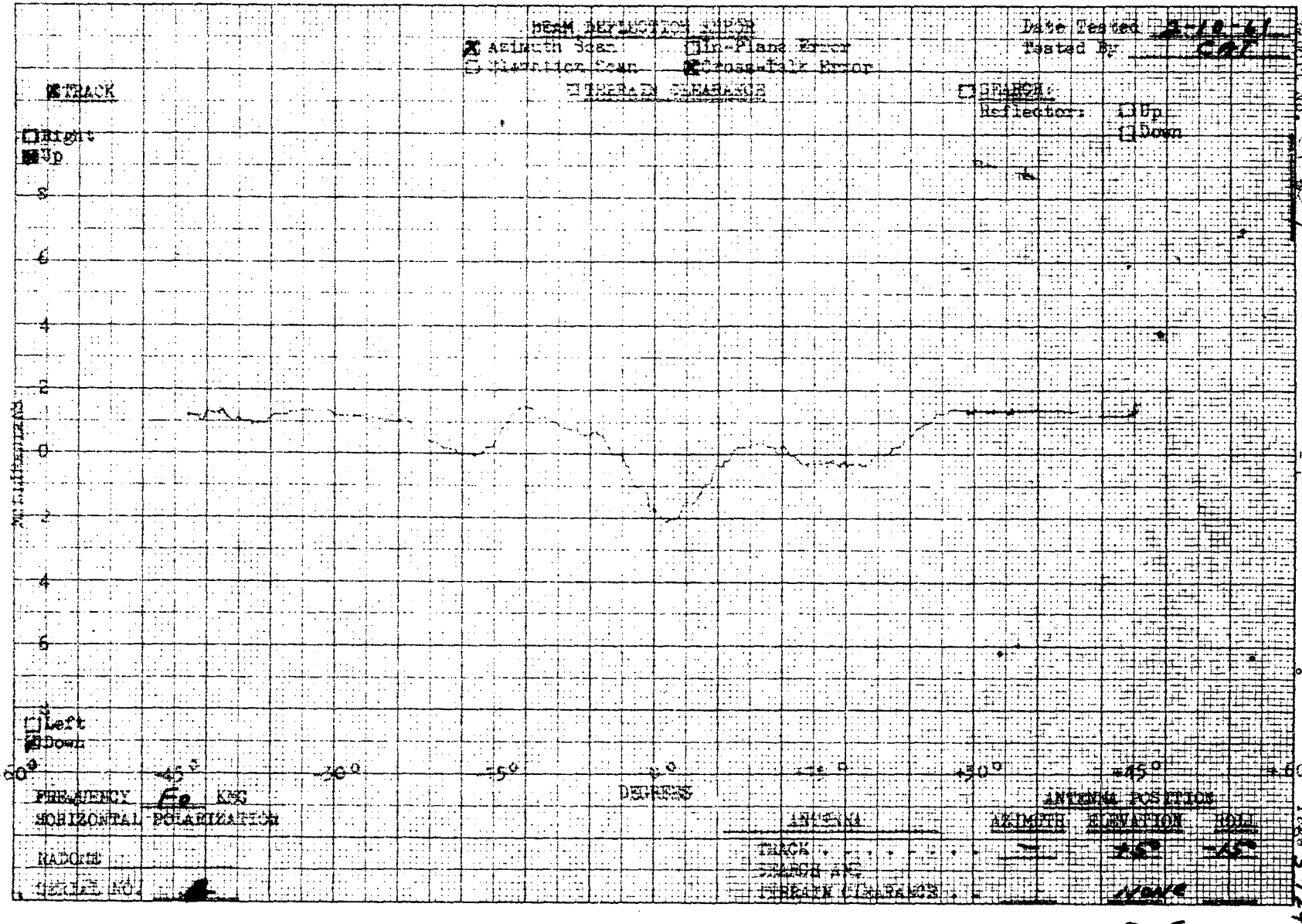

Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Track Error
TRACK
Right
Up
Left
Down
Date Tested 4-10-64
Tested by CAT
DEGREES
-60
-45
-30
-15
0
+15
+30
+45
+60
P-E
Page 3-120

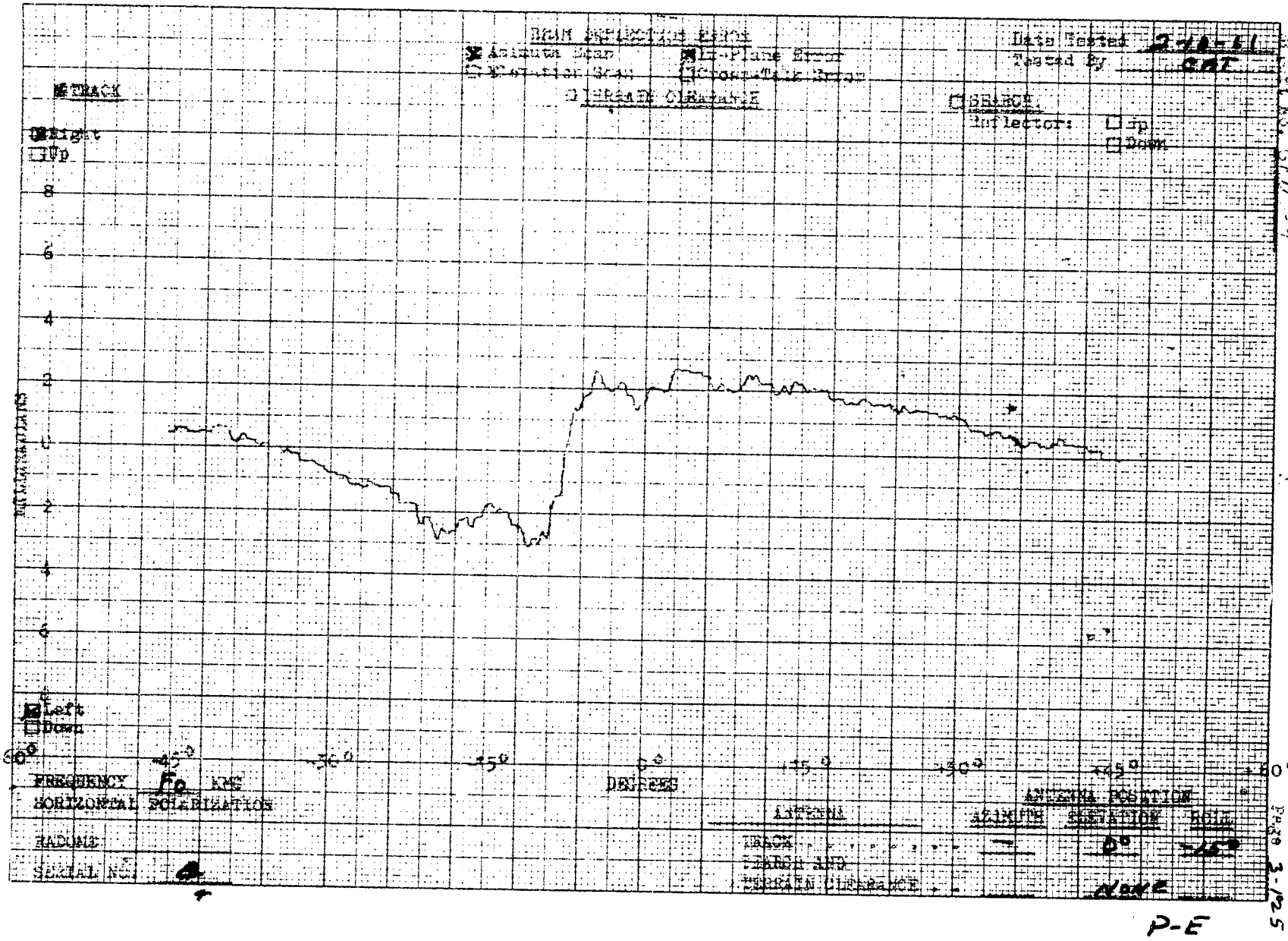

Date Tested 2-10-61
Tested by C.A.F.
TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo KC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. X
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+45° -45°
None
P-5

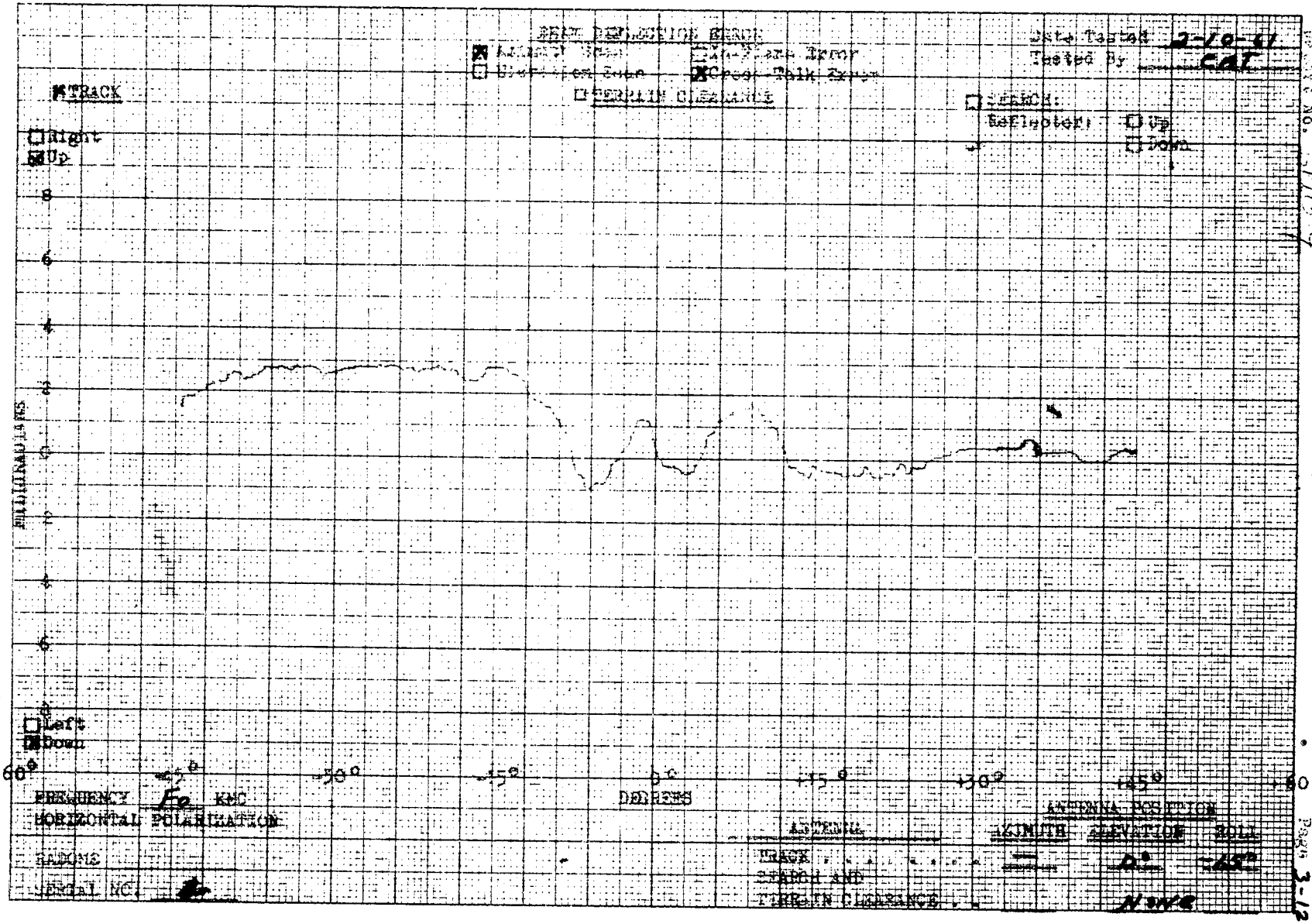

Date Tested 2-10-61
Tested By CAT
Latitude Scan
Elevation Scan
Plant Error
Cross-Axis Error
TRACK
Right
Up
RANGE
Deflector: Up
Down
MILLIMILLIRADS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH ELEVATION RGE
TRACK +0° -45°
SEARCH AND
TERRAIN CLEARANCE
None
P-E-
Page 3-122

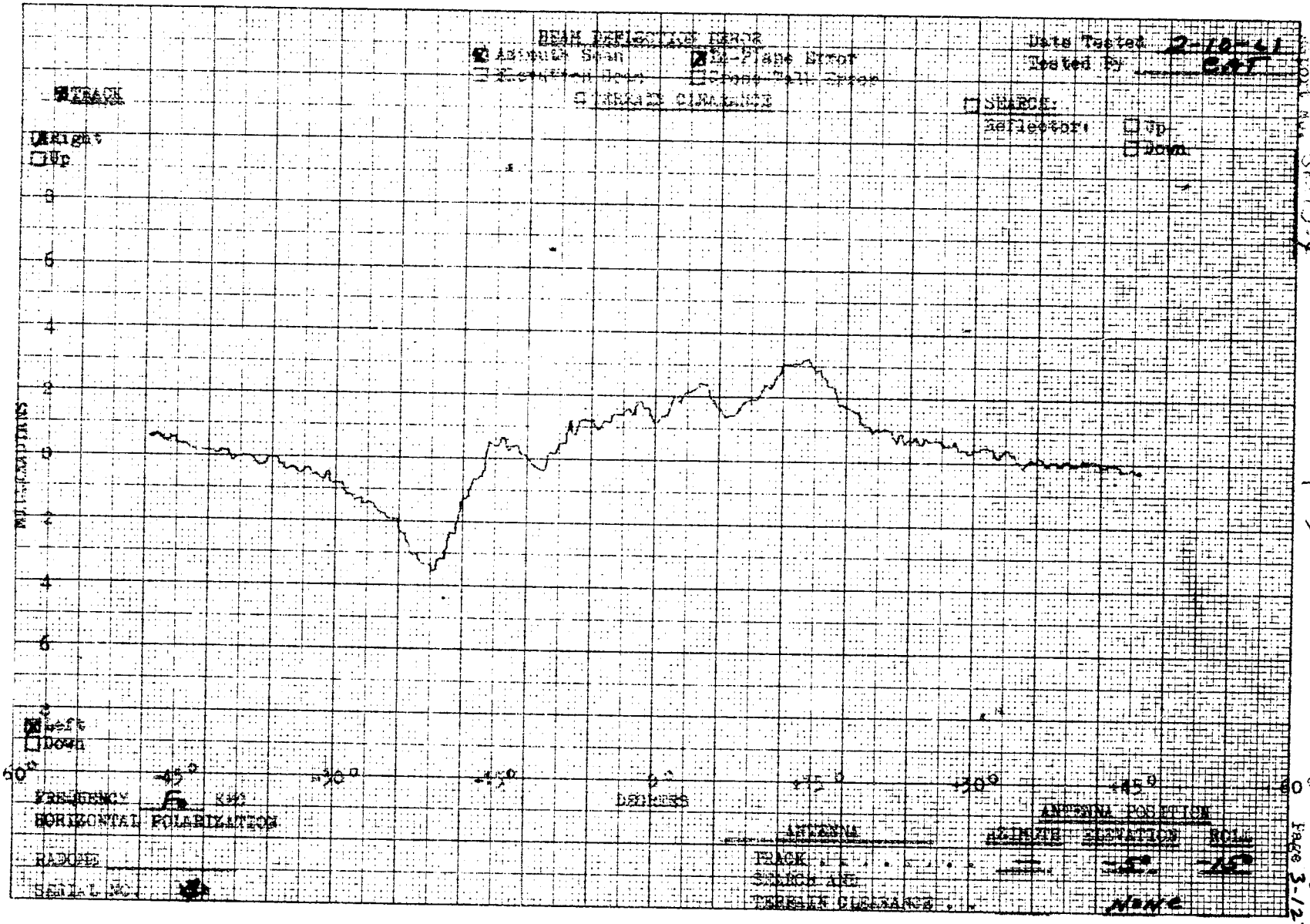
10 X 10 TO THE ½ IN. 359-11G
KEUFFEL & ESSER CO.



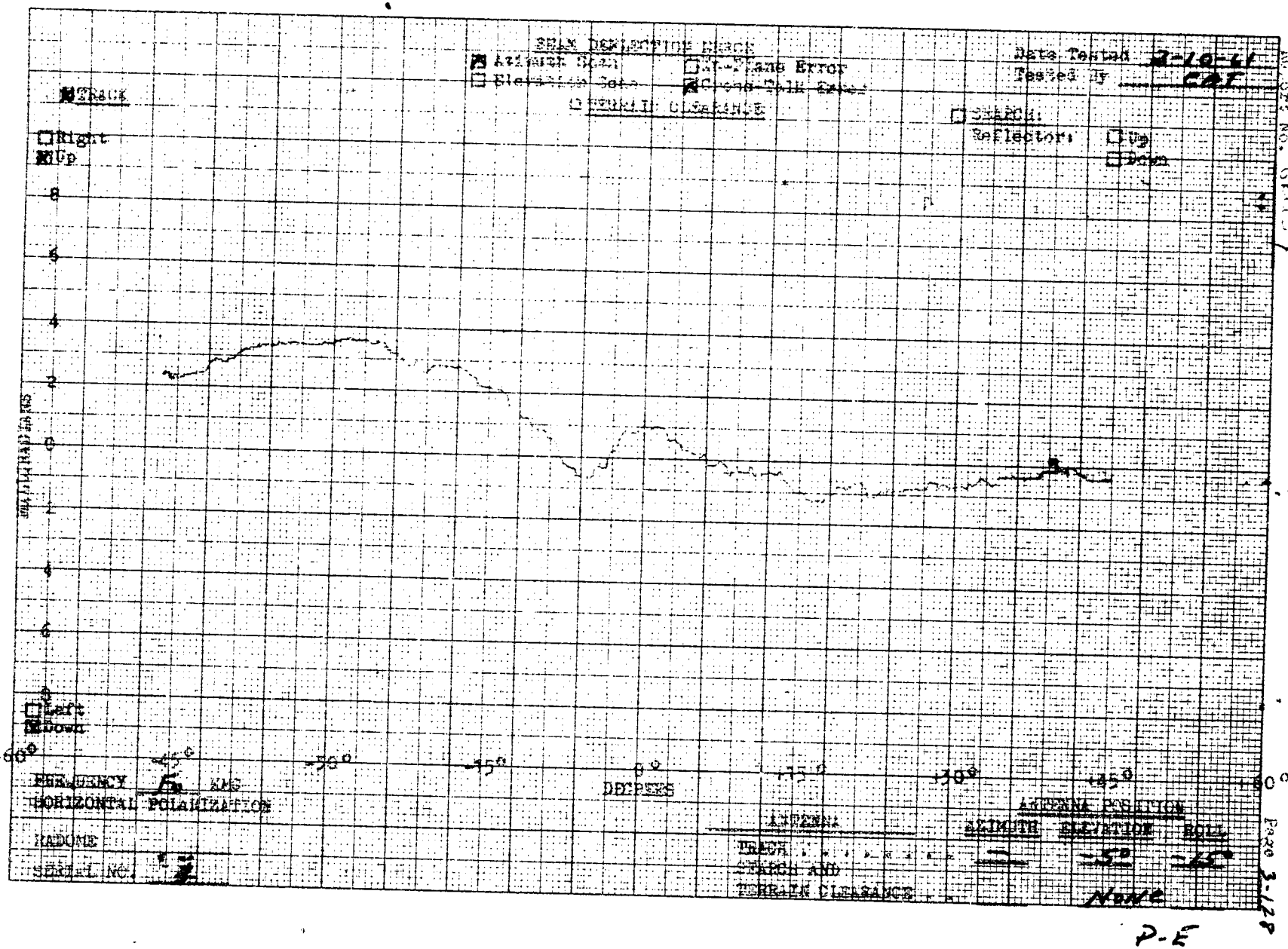

BEAM DEFLECTION CURVE
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
Date Tested 3-16-64
Tested By Carl
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
Antenna Deflection
DEGREES
FREQUENCY Fo KMC
HORIZONTAL POLARIZATION
RADOME
ANTENNA POSITION
AZIMUTH ELEVATION
TRACK
SEARCH
THREAT CLEARANCE
Page 3-124
P-E


BEAM DEFLECTED BEAM
Azimuth Beam
Elevation Beam
TRACK
Right
Up
Left
Down
Data Tested 3-10-61
Tested By CAT
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
BEACON
Inflector: Up
Down
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH 0°
ELEVATION -45°
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
P-E
3-125

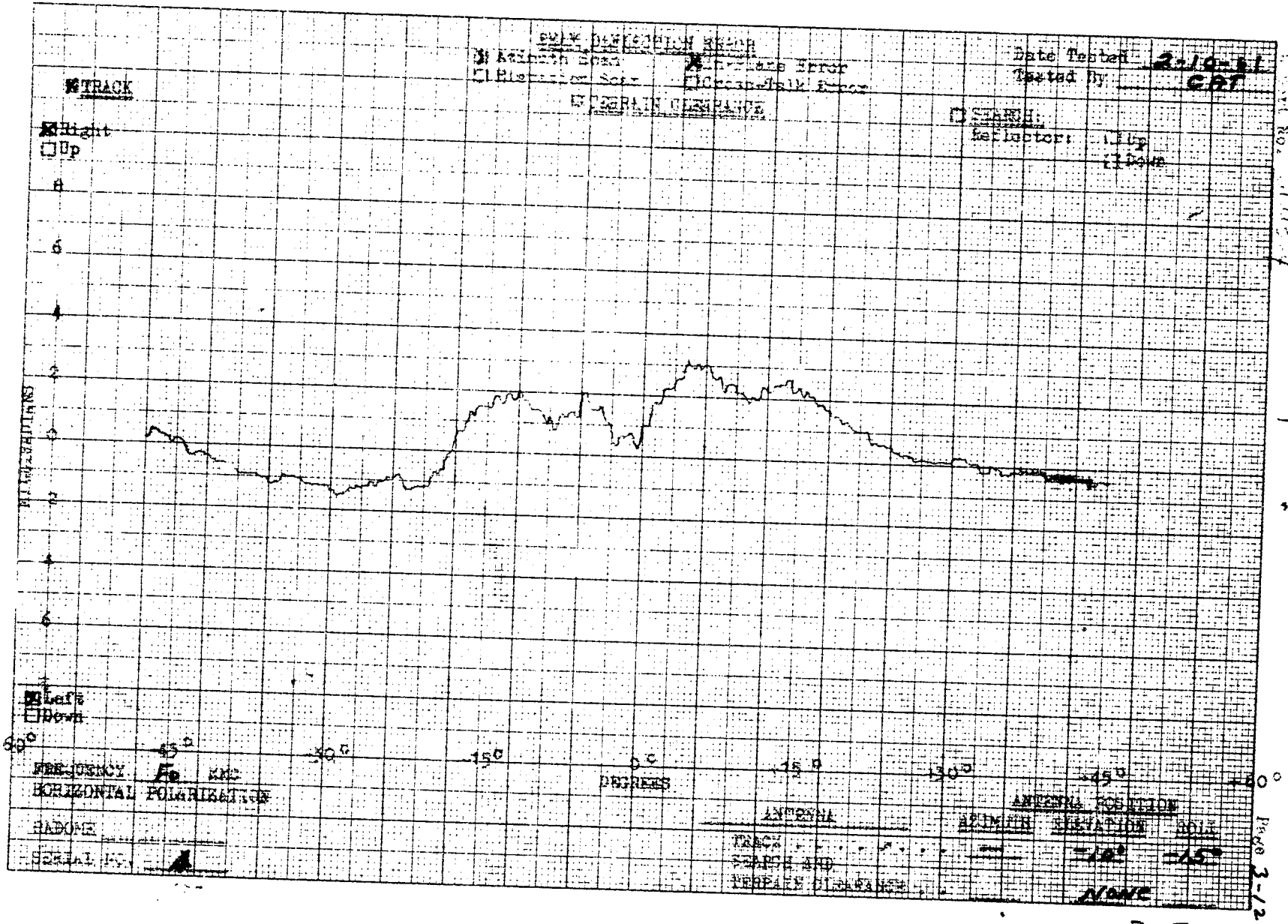

BEAM DEFLECTION BEAM:
Azimuth Beam
Elevation Beam
Sum-Beam Error
Beam-Beam Error
X Beam-Talk Error
TERRAIN CLEARANCE
Date Tested 2-10-61
Tested By CAT
TRACK
Right
Up
Left
Down
TRACK:
Deflection:
Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo KMC
HORIZONTAL POLARIZATION
RADOME
RADAR NO.
AZIMUTH
TRACK
BEACON AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
-45°
None
P-E
PAGE 3-126

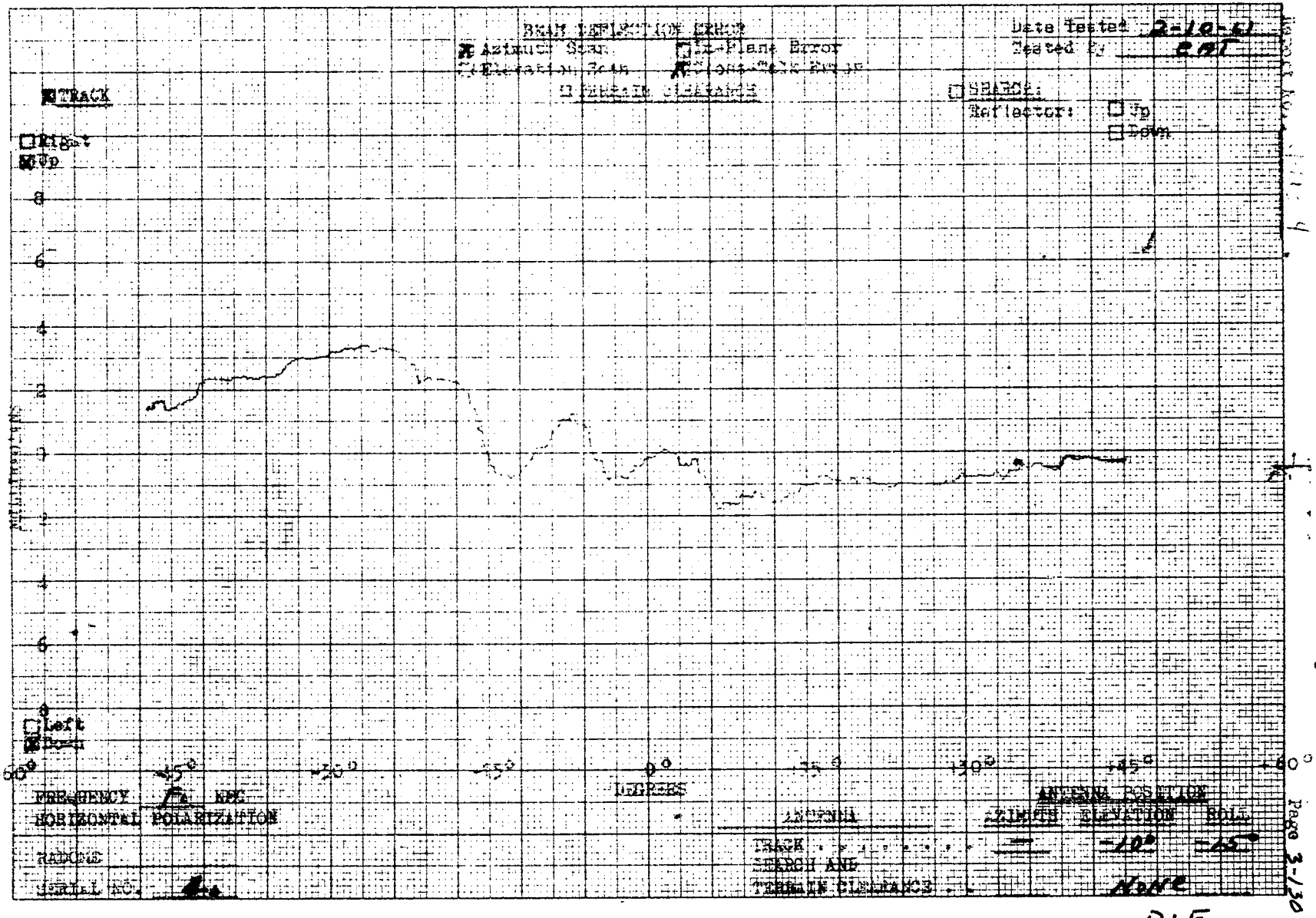

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
E-Plane Offset
Phase Roll Error
TRACK CIRCUIT
Date Tested 2-10-61
Tested By EMT
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-90°
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY
HORIZONTAL POLARIZATION
RADOME
SCALE INCH
ANTENNA
TRACK
SEARCH ARC
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-5°
-45°
None

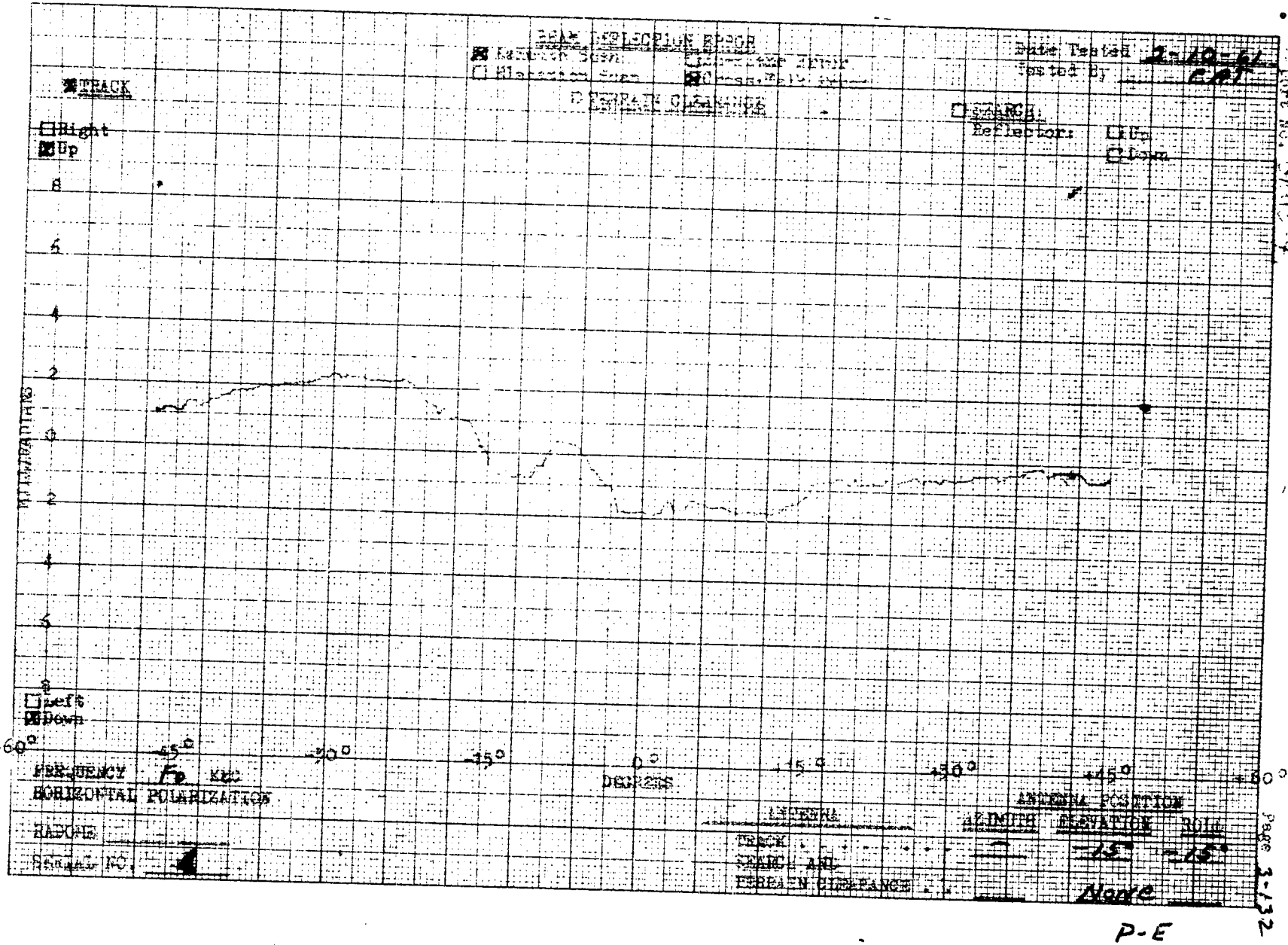
P-E

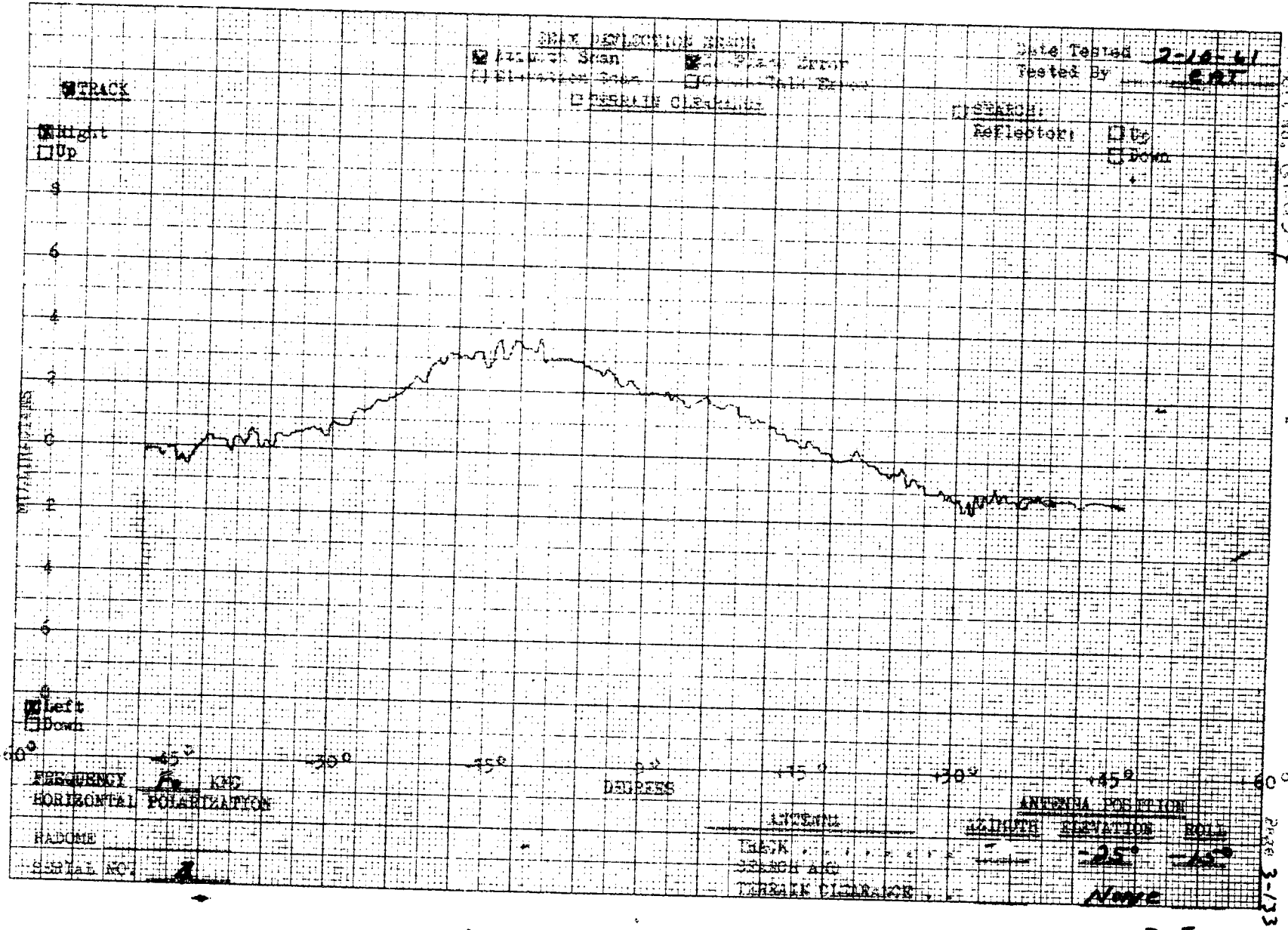

Data Tested 3-20-61
Tested By CAF
Track
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DB/DEG
FREQUENCY 5.6 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 2
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-5° -4°
None
P-E

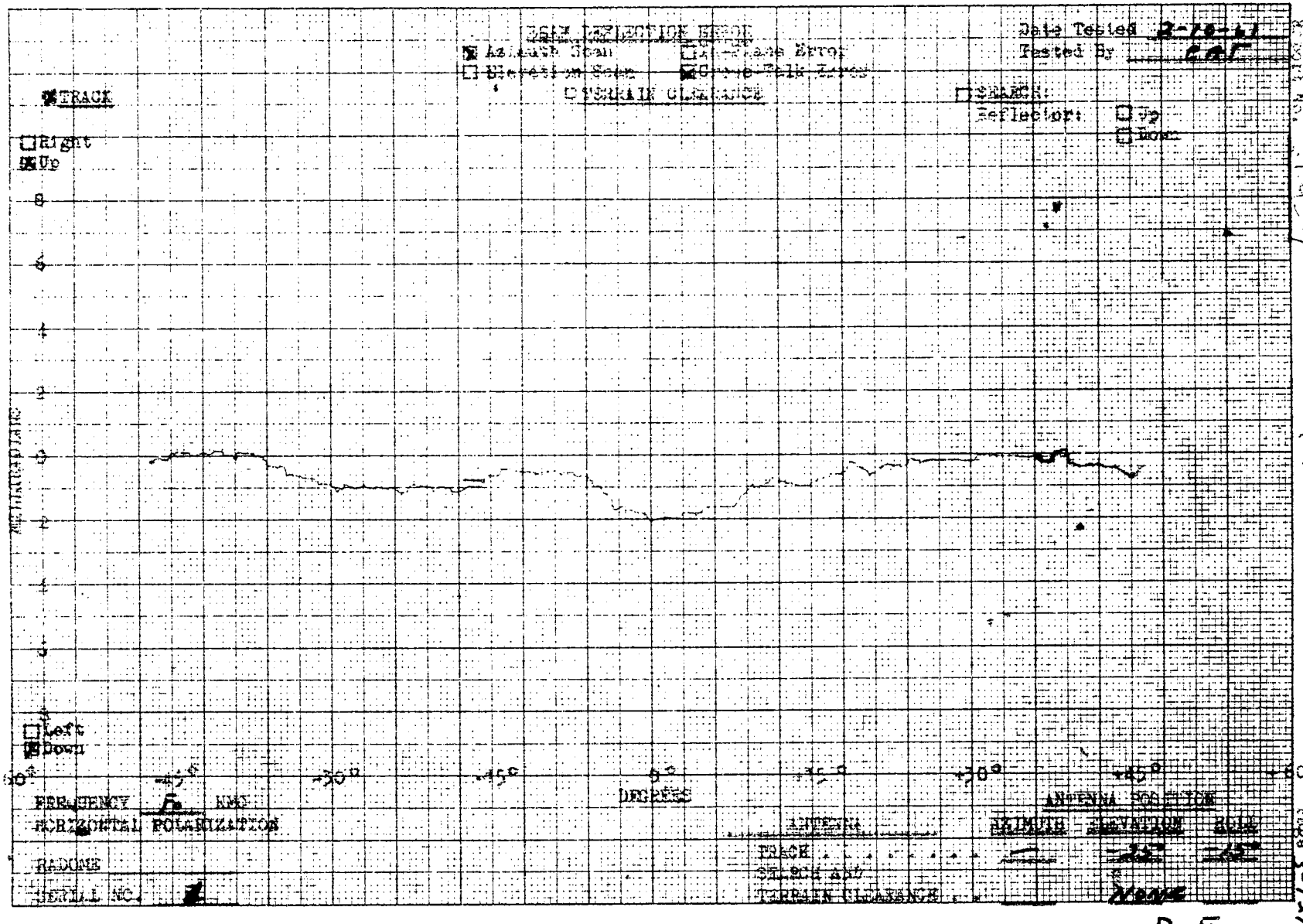
10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.



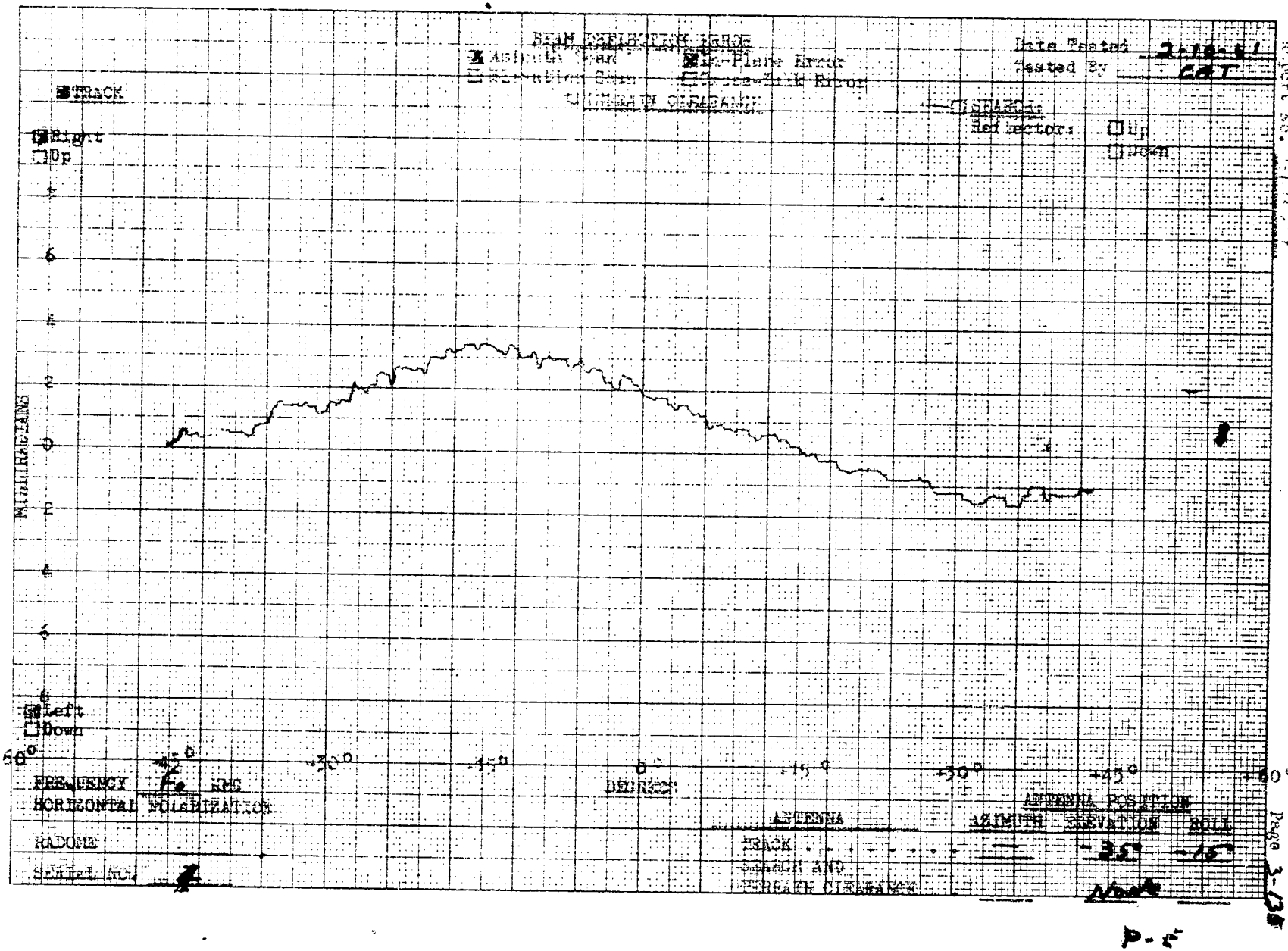

Azimuth Scan
E-Plane Error
Elevation Scan
H-Plane Error
Date Tested: 2-10-61
Tested By: CAT
TRACK
SEARCH
Reflector: Up
Down
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK
SEARCH AND
TERMINAL CHARACTERISTICS
-10°
-45°
None
P-E


BEAM DEFLECTION ERROR
Date Tested 2-10-64
Tested By CAT
TRACK
Right
Up
Left
Down
DEGREES
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY Fo KMC
HORIZONTAL POLARIZATION
RADOME
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-15° -15°
Mode
P-E
Page 3-132


TRACK
Right
Up
Left
Down
Date Tested 2-16-61
Tested By
SEARCH:
Reflector:
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY
KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-25°
-45°
None
LEGEND
TRACK
SEARCH AID
TORQUE ERROR


Azimuth Beam
Elevation Beam
Difference Beam
Sum Pulse Level
TRACK
Right
Up
Left
Down
Date Tested 3-28-61
Tested By
Reflector:
Up
Down
DEGREES
-45°
-30°
0°
+30°
+45°
FREQUENCY
MHz
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
AZIMUTH
ELEVATION
TRACK
SEARCH AND
TERRAIN CLEARANCE
Form 3-134

P-E


BEAM DEFLECTION ERROR
Data Tested 2-16-61
Tested By CAT
Report No.
TRACK
Right
Up
SEARCH
Deflector: Up
Down
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA
TRACK
SEARCH AND
BEACON CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-35°
-45°
None
Page 3-13
P-4

10 X 10 TO THE ½ INCH 359-11G

BEAM DEFLECTION BENCH

Date Tested 2-18-41

Tested By CMC

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cosec Sqd. Error

☐ TERRAIN CLEARANCE

☐ SEARCH

Reflection: ☐ Up ☐ Down

☒ TRACK

☐ Right

☒ Up

8

6

4

2

0

2

4

6

8

☐ Left

☒ Down

-60° -45° -30° -15° 0 +15° +30° +45° +60°

DEGREES

FREQUENCY 6c MC

HORIZONTAL POLARIZATION

ANTENNA ROTATION

ANTENNA ELEVATION BIAS

TRACK -35°

SEARCH AND TERRAIN CLEARANCE -15°

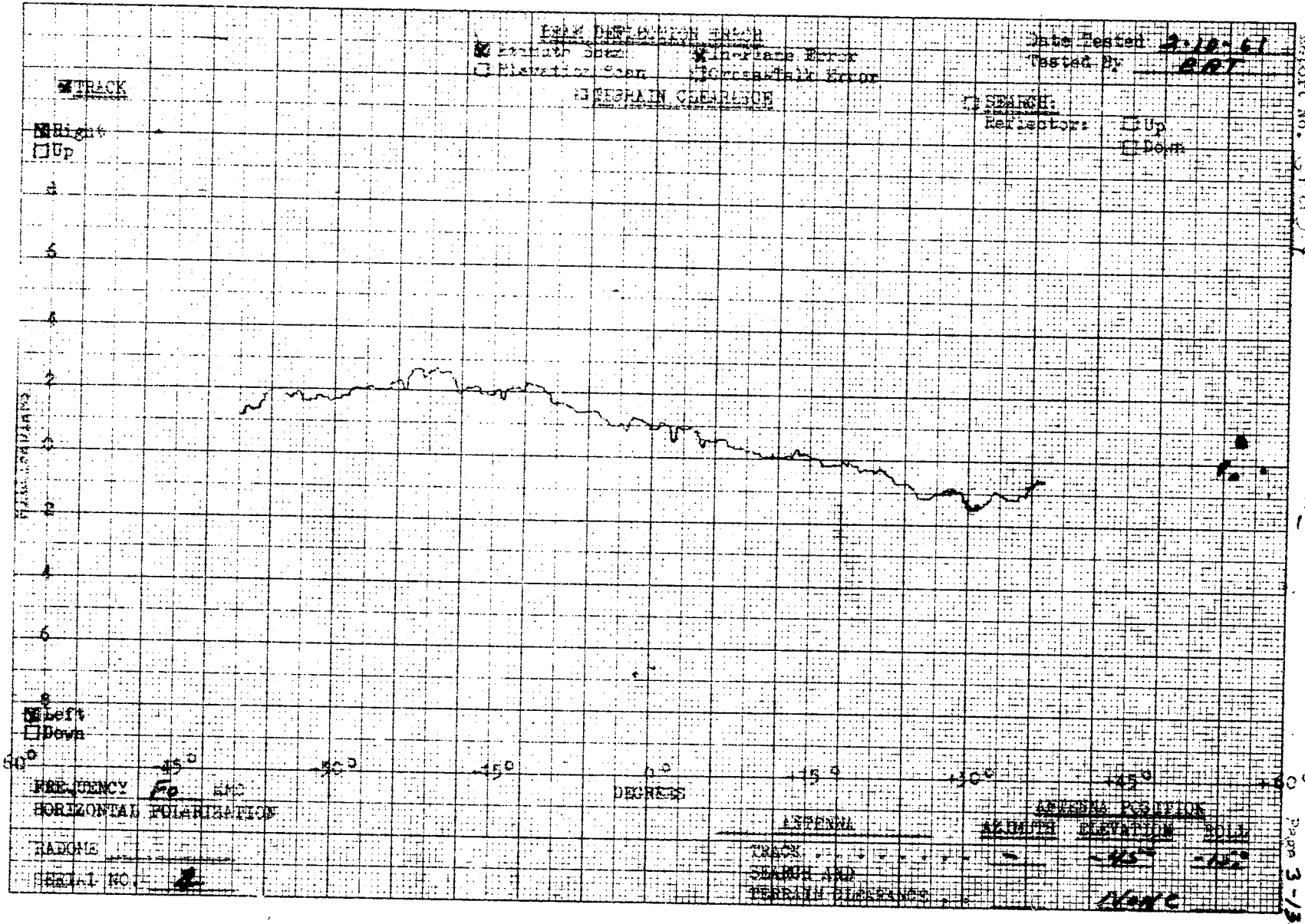
RADOME

SERIAL NO. 4

NOSE

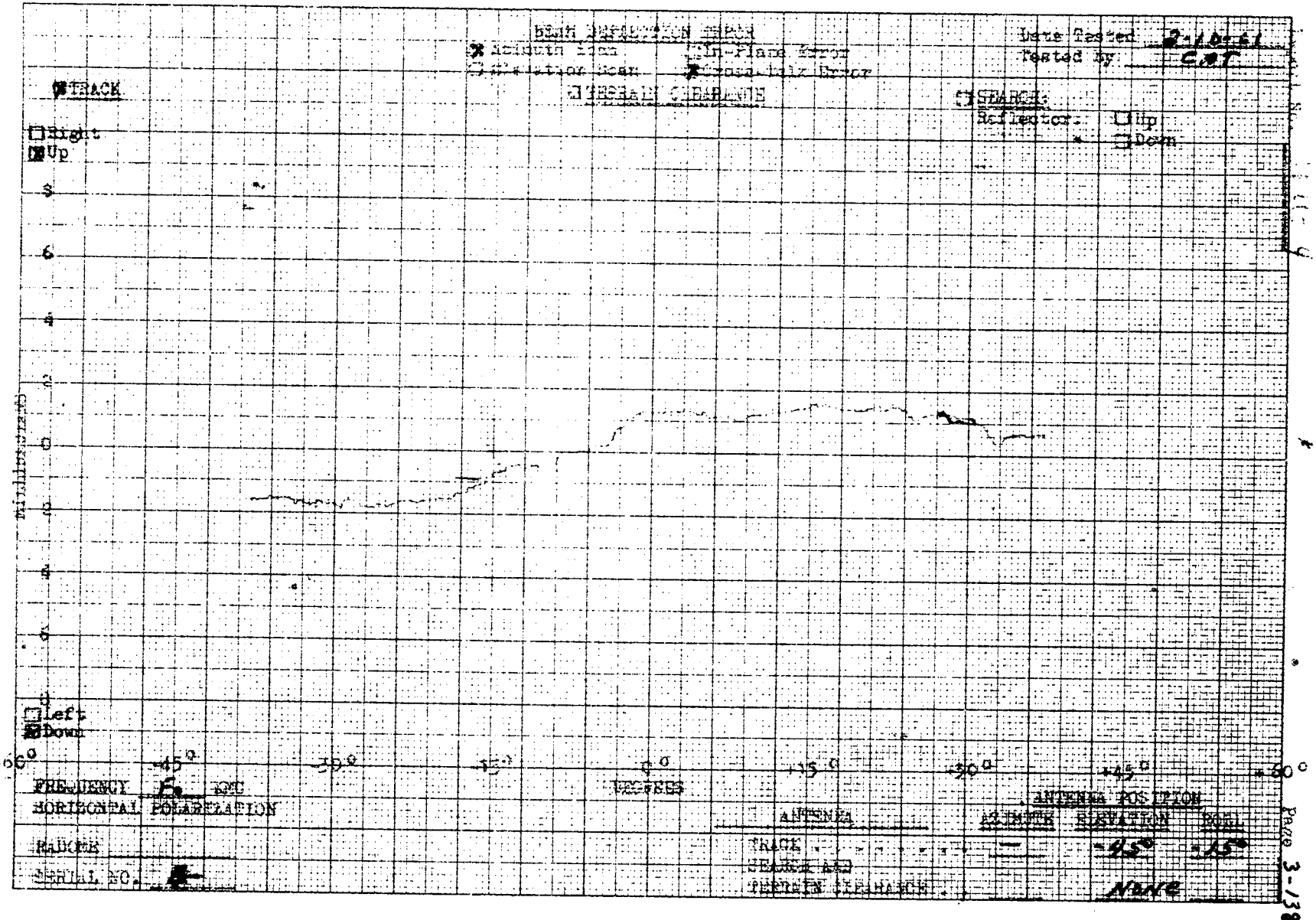
3-1-41

10 X 10 TO THE INCH 359-110
KEUFFEL & ESSER CO.



-P-E-

10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.

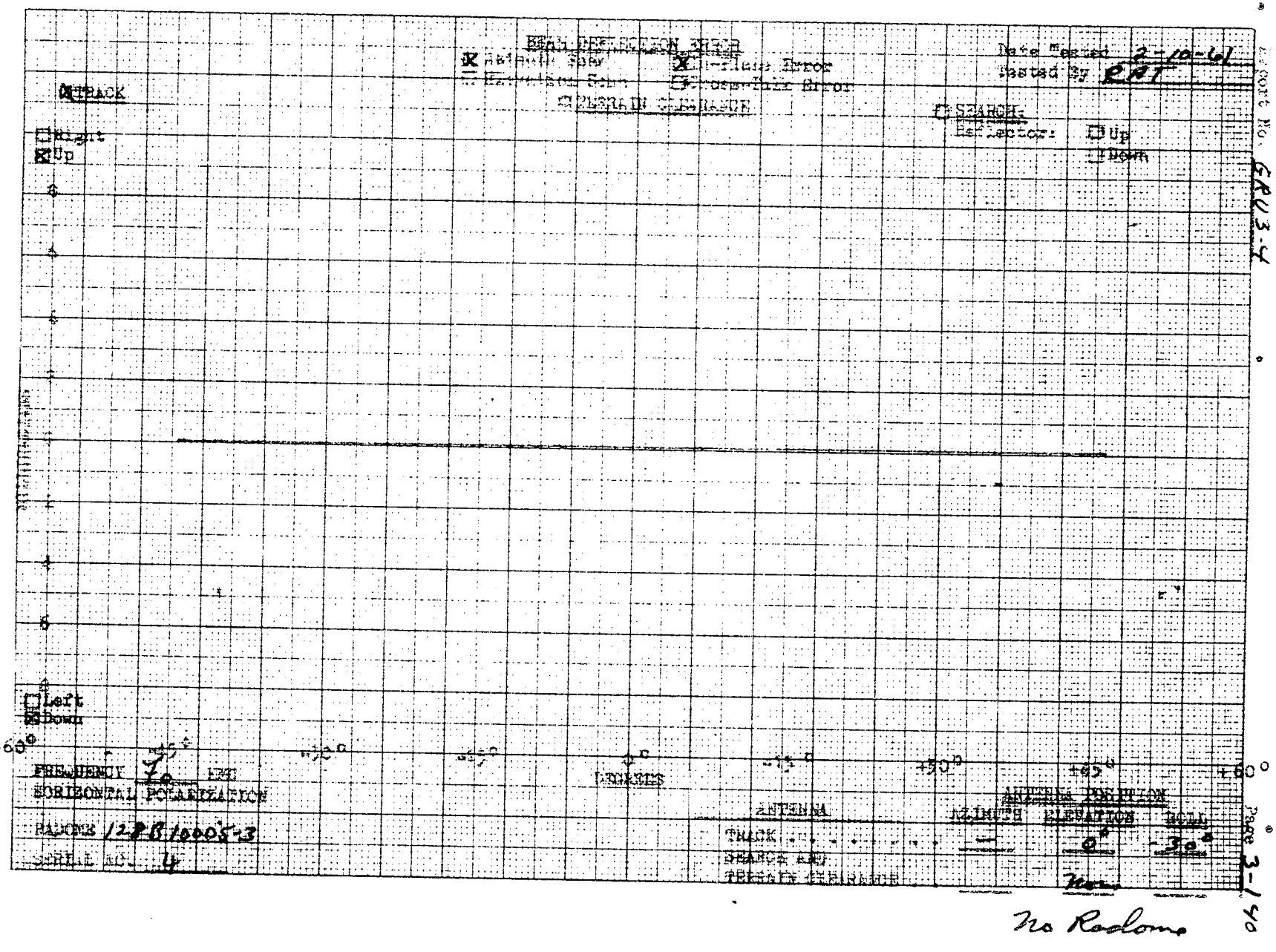


-P-E

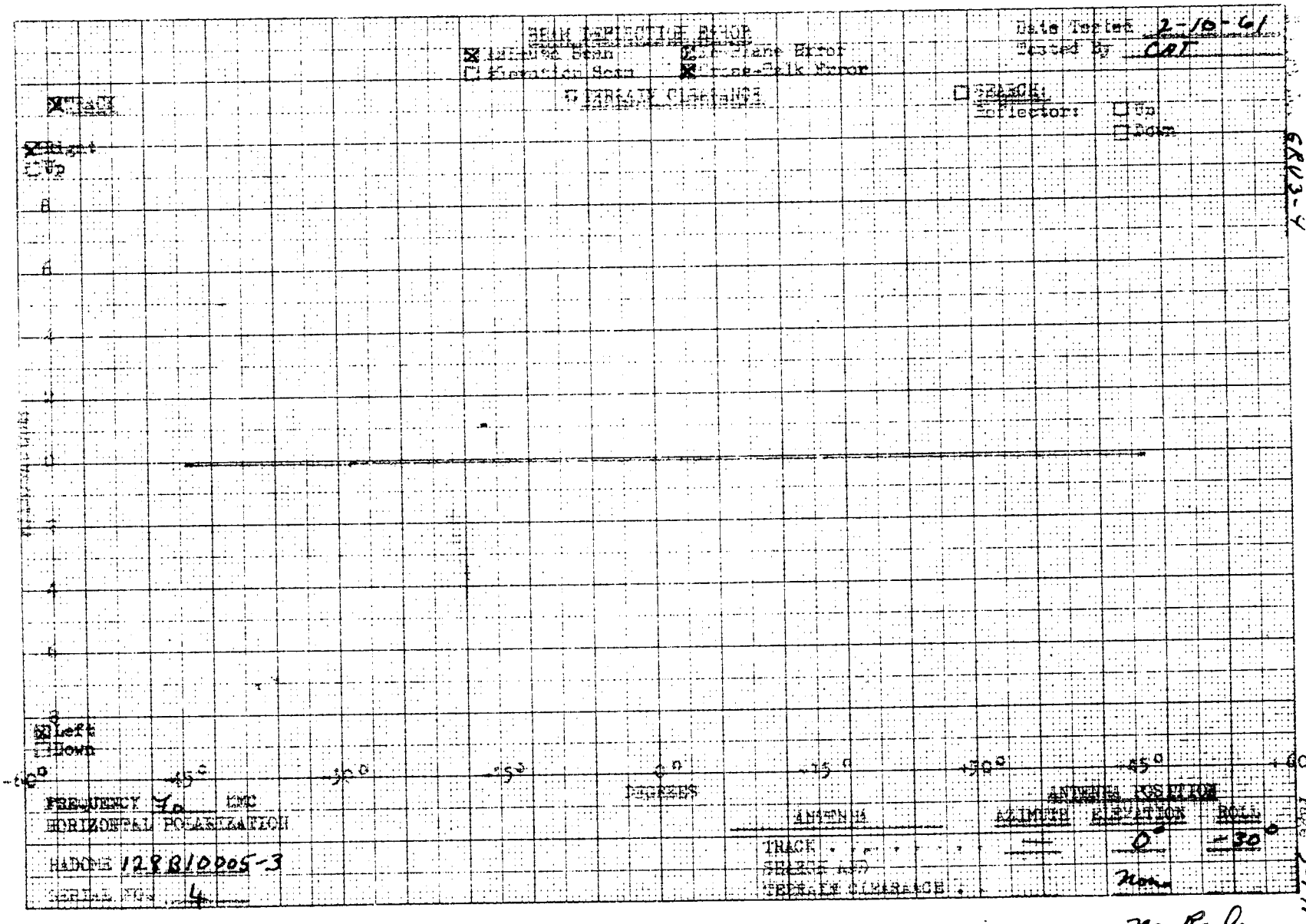
SECTION 99

TRACK ALIGNMENT ERROR

F_0 @ -50° ROLL


Date Tested 2-10-61
Tested By RAT
Report No. GRU 3.4
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
FREQUENCY 70
HORIZONTAL POLARIZATION
RADOME 1288/10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN REFLECTION
AZIMUTH
ELEVATION
0°
-30°
No Radome
Page 3-140

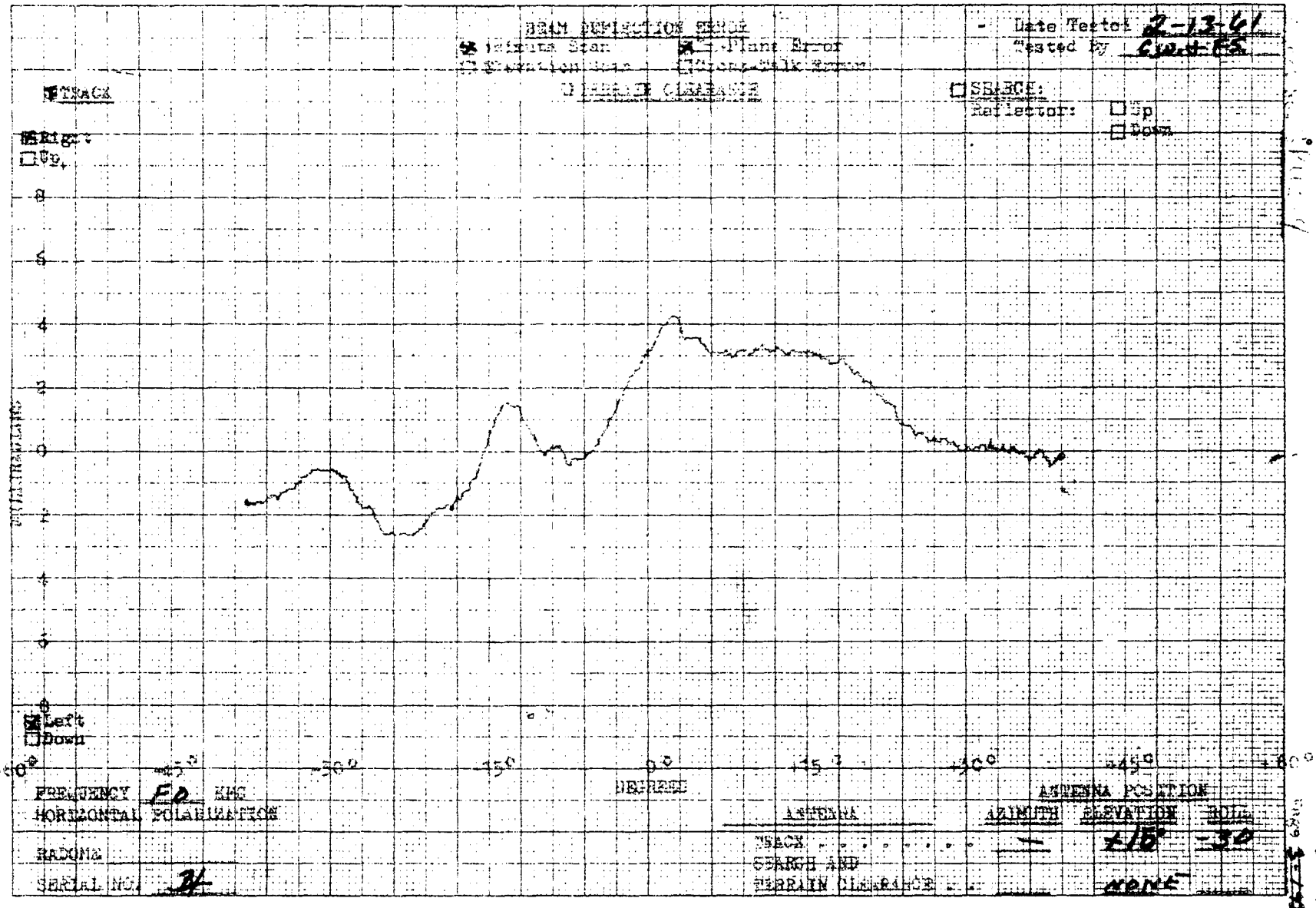
10 X 10 TO THE INCH 359-110

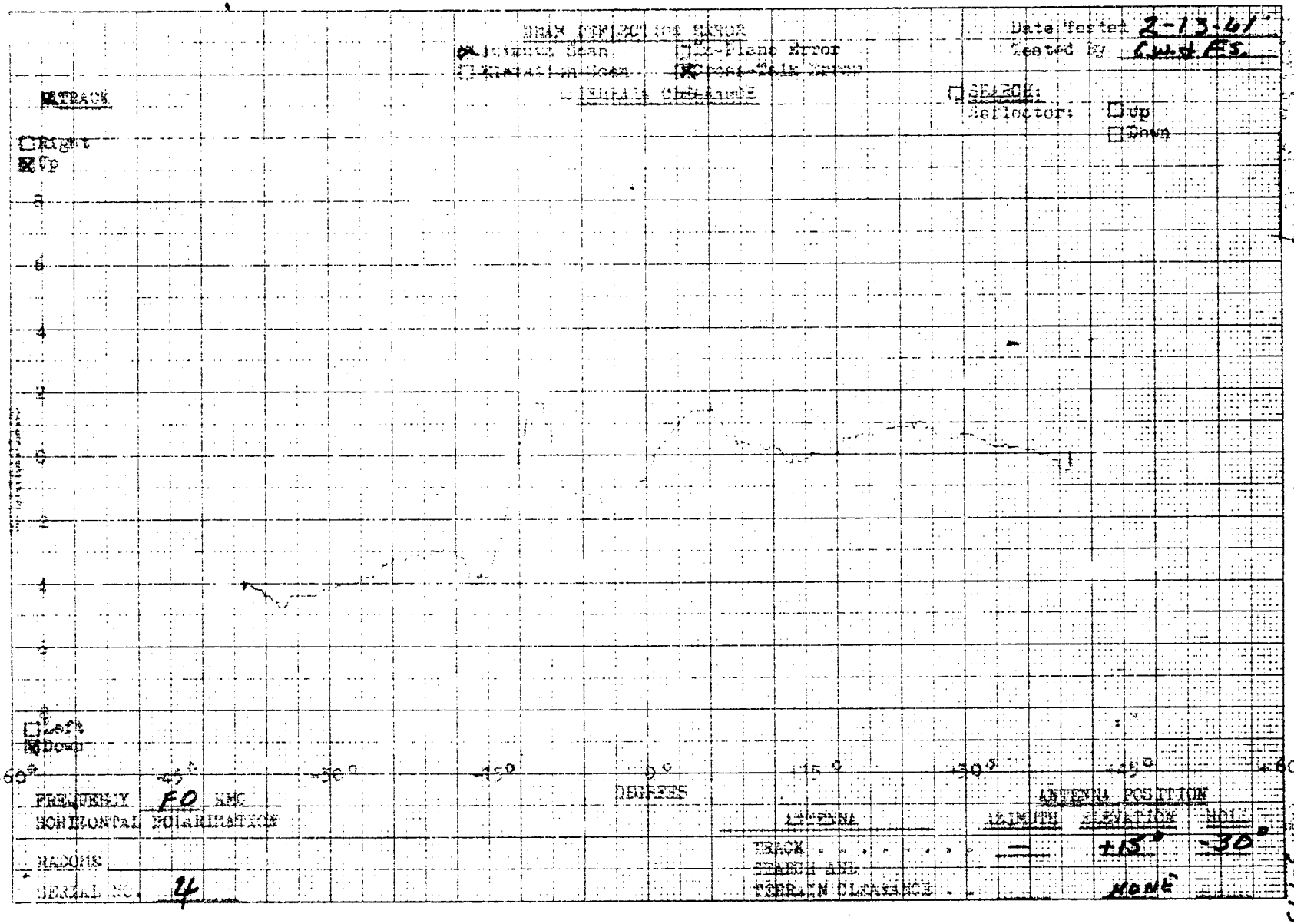


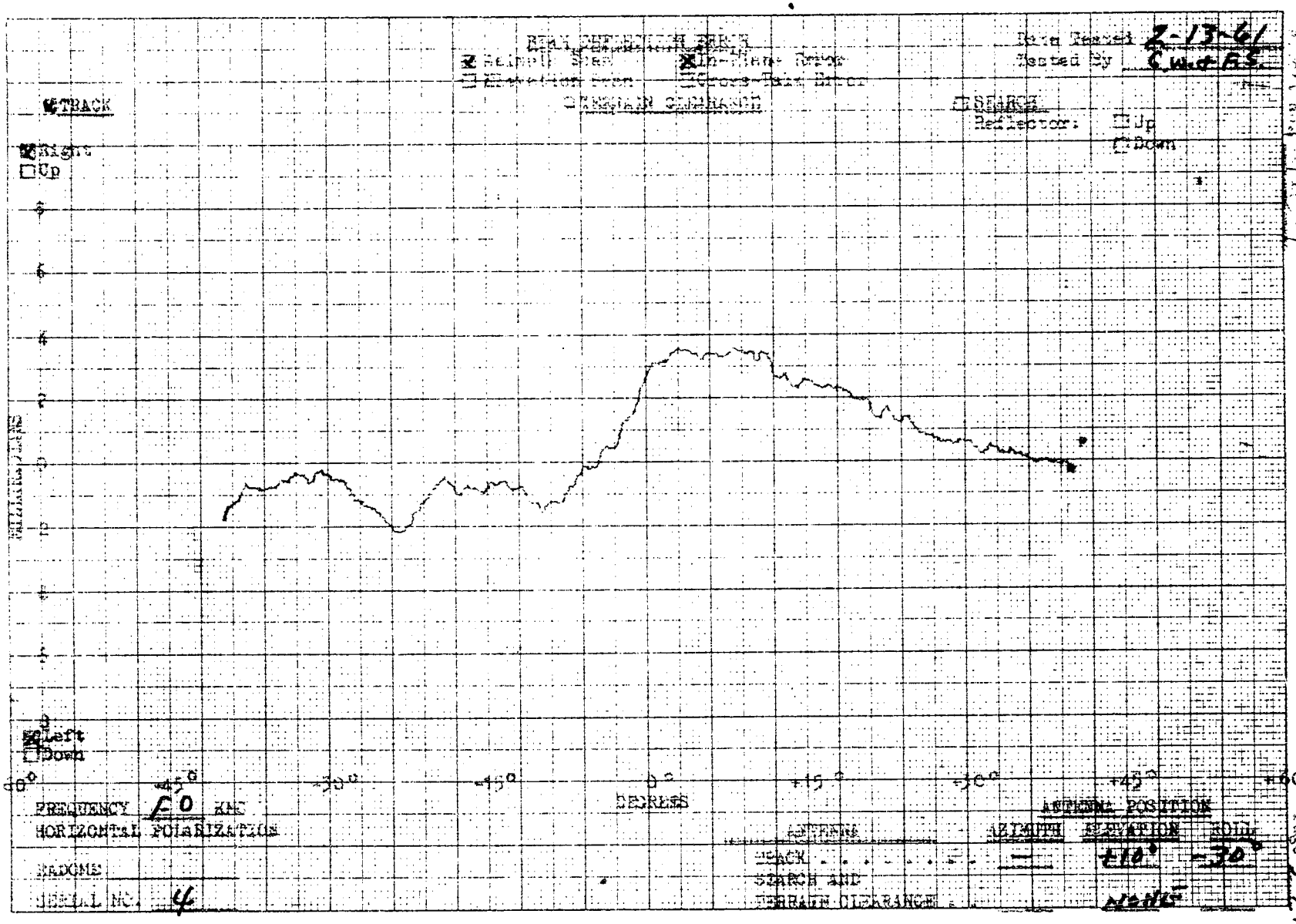
GRV3-Y

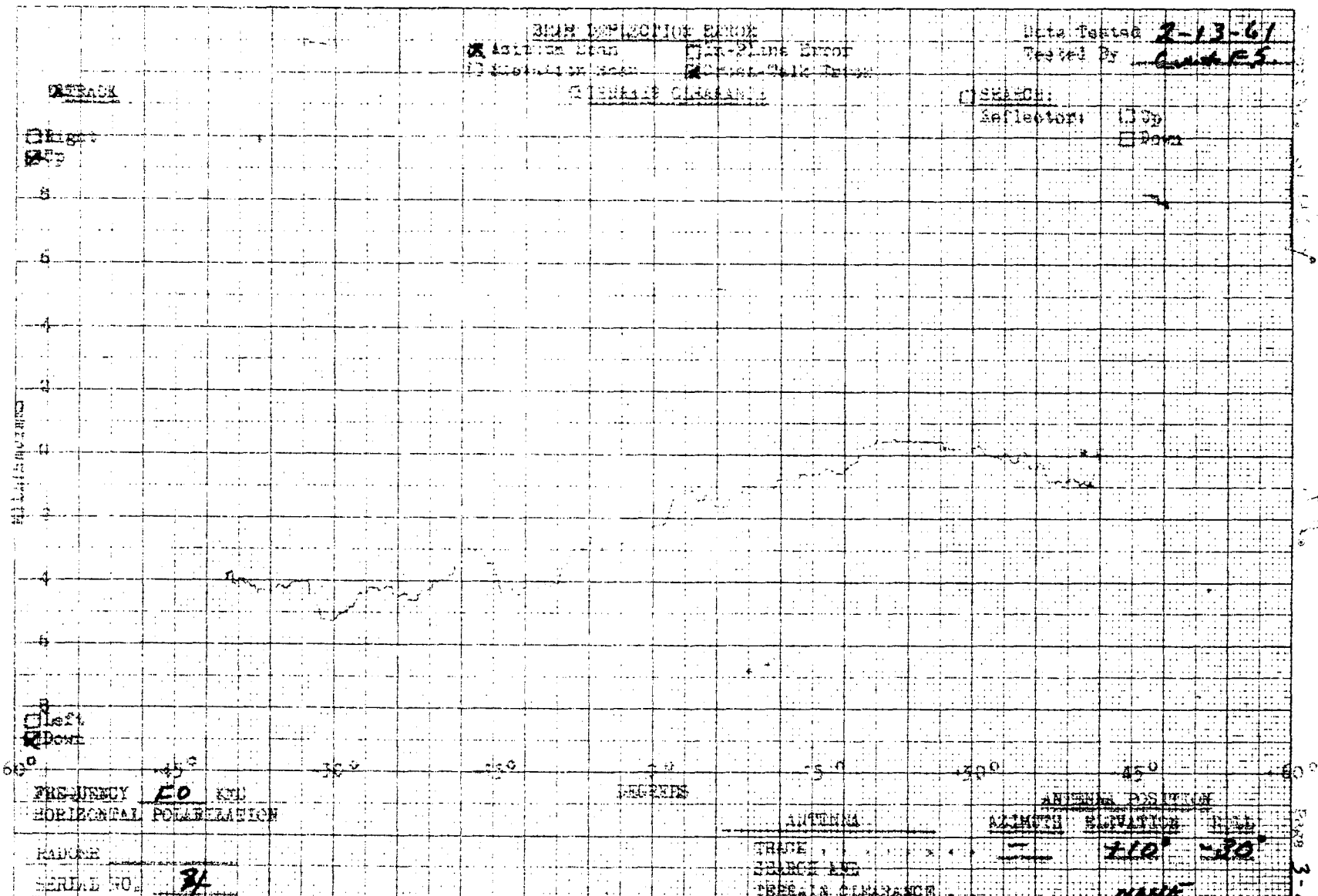
Page 3-141

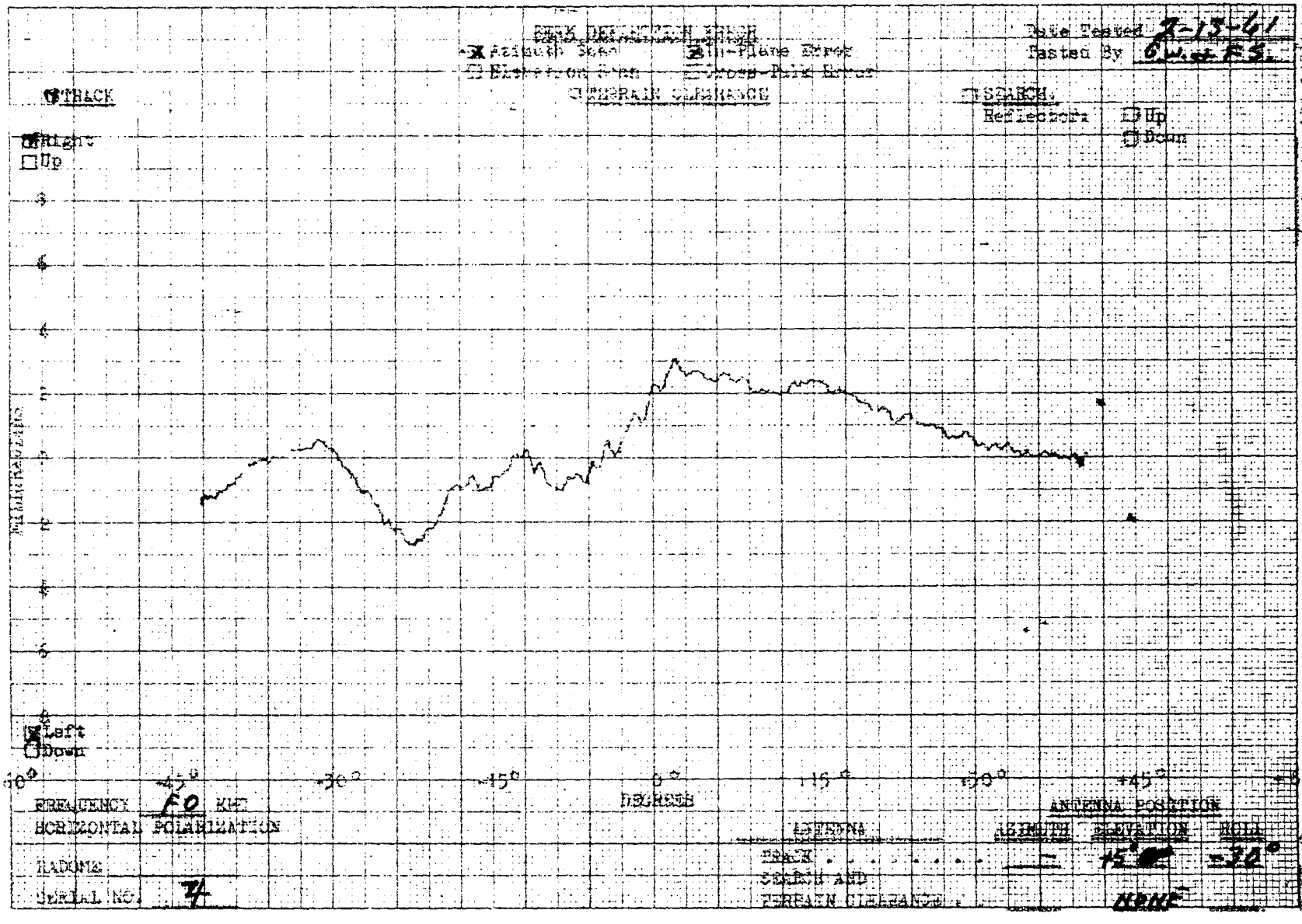
No Radome

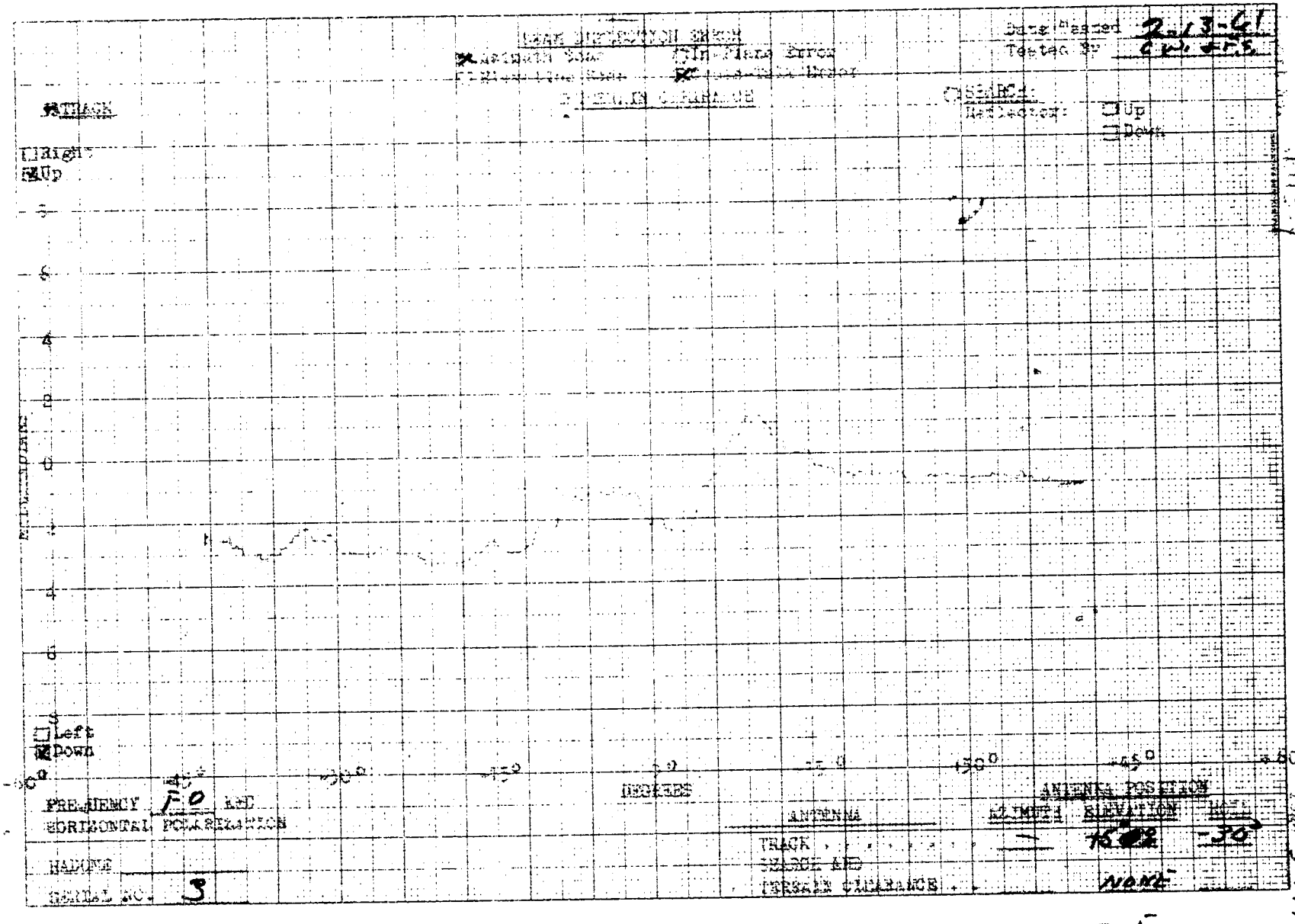

BEAM DEFLECTION ERROR
Date Tested 2-13-61
Tested By C.W.+C.S.
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 34
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
±15°
-30
none

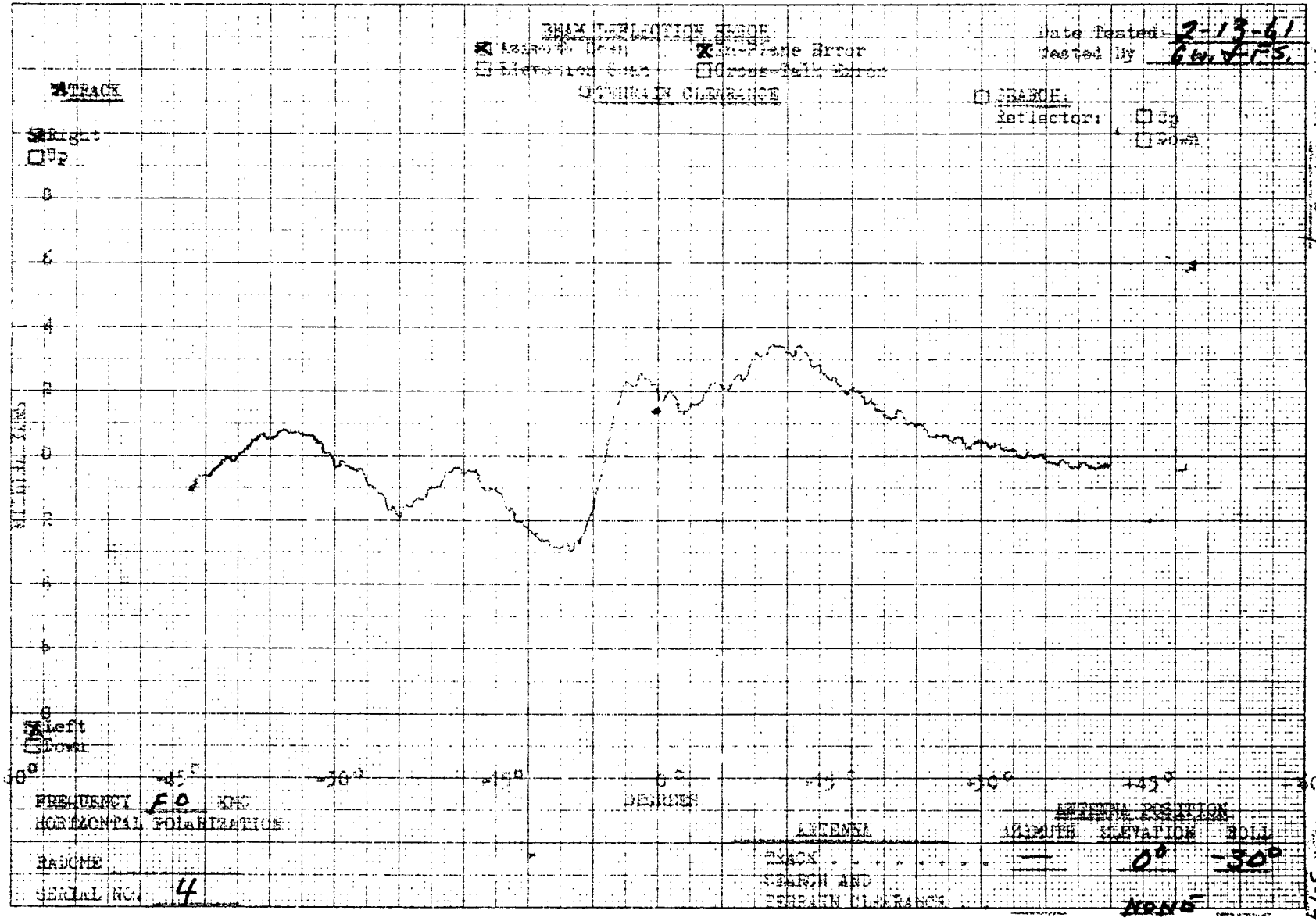

BEAM DEFLECTION SENSOR
Date Tested: 2-13-61
Tested By: C.W.S.E.S.
TRACK
Right
Up
Left
Down
SPACE:
Reflector: Up
Down
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
+15°
-30°
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
3-143


Data Record 2-13-61
Tested By C.W. & E.S.
TRACK
Right
Up
Left
Down
SEARCH
Reflector: Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 10 KMC
HORIZONTAL POLARIZATION
RADOME
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
BEACON
TRACK
SEARCH AND
TERRAIN CLEARANCE
+10° -30°
NOTE:
Page 3-144


BEAM DEFLECTION ERROR
Azimuth Error
Elevation Error
Cross-Plane Error
Boresight Clearance
Date Tested 2-13-61
Tested By Cunkes
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
DEGREES
FREQUENCY 60 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 34
ANTENNA
TRACE
SOURCE LNE
BORESIGHT CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
TILT
+10°
-20°
NONE
3-145


PEAK DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Tan-Plane Error
Cross-Plane Error
Date Tested 2-15-61
Tested By G.W. + F.S.
TRACK
Right
Up
TERRAIN CLEARANCE
SEARCH
Reflectors
Up
Down
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 60 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 74
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
+5°
-30°
HORIZ
P-E


Date Plotted 2-13-61
Tested By C.W. & F.S.
TRACK
Right
Up
Left
Down
DEGREES
FREQUENCY 10 KC
HORIZONTAL POLARIZATION
HARDING
SERIAL NO. 3
ANTENNA POSITION
AZIMUTH
ELEVATION
TRACK
SOURCE AND
TERRAIN CLEARANCE
NONE
-30
3-1747


Date Tested 2-13-61
Tested by GW, E-15,
TRACK
Right
Up
Left
Down
-45°
-30°
-15°
0°
+15°
+30°
+45°
DEGREES
FREQUENCY 50 KC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° -30°
P-E

BEAM REFLECTION TRACE

Date Tested 2-13-61

Tested by C. Hunt E.S.

☒ Azimuth Scan ☐ E-Plane Direct

☐ Elevation Scan ☒ Direct Path Return

☐ TERRAIN CLEARANCE

☒ TRACK

☐ Right

☒ Up

☐ SEARCH

Reflector: ☐ Up ☐ Down

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 50 MC

HORIZONTAL POLARIZATION

RADOME

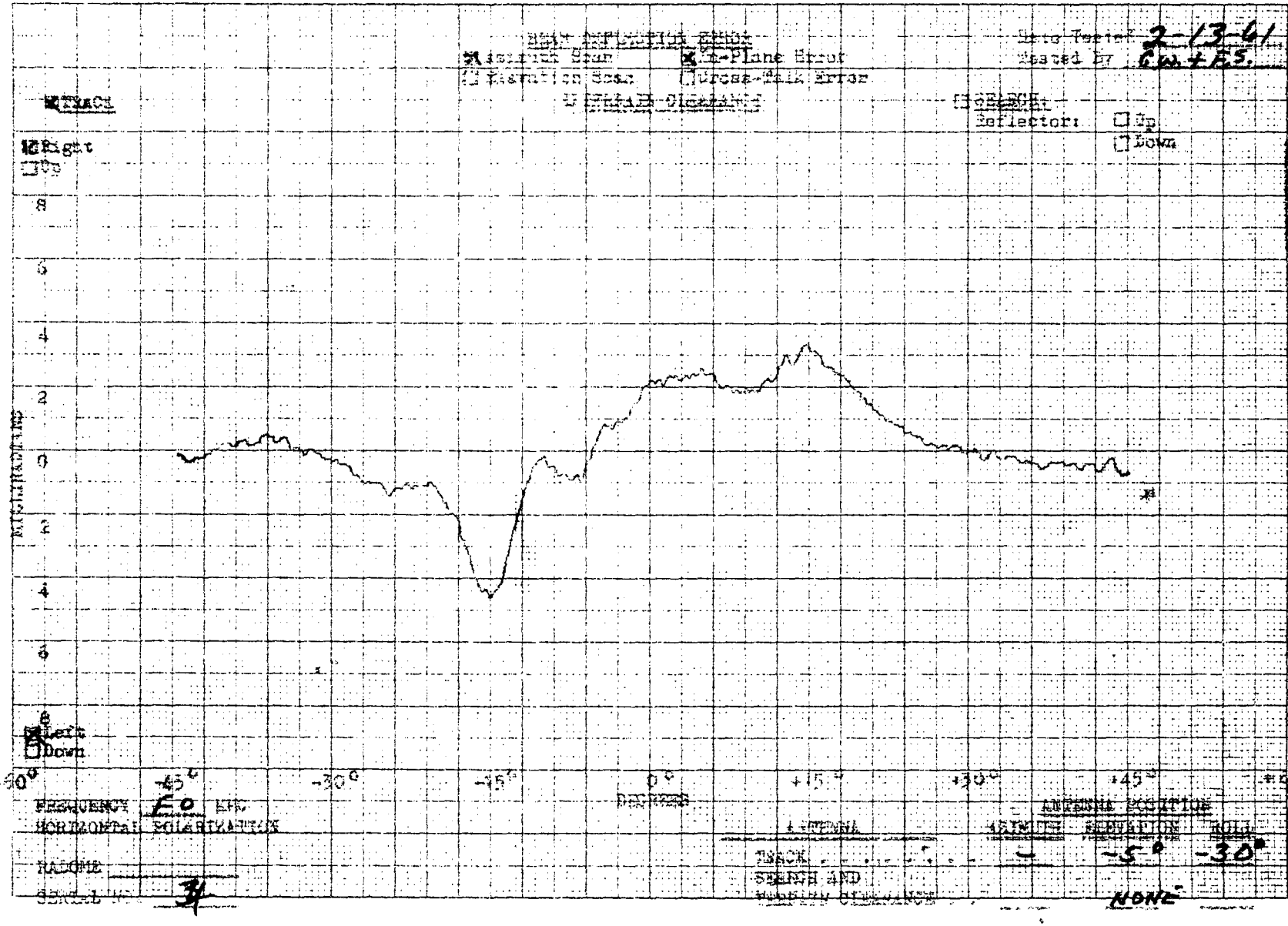
SERIAL NO. 4

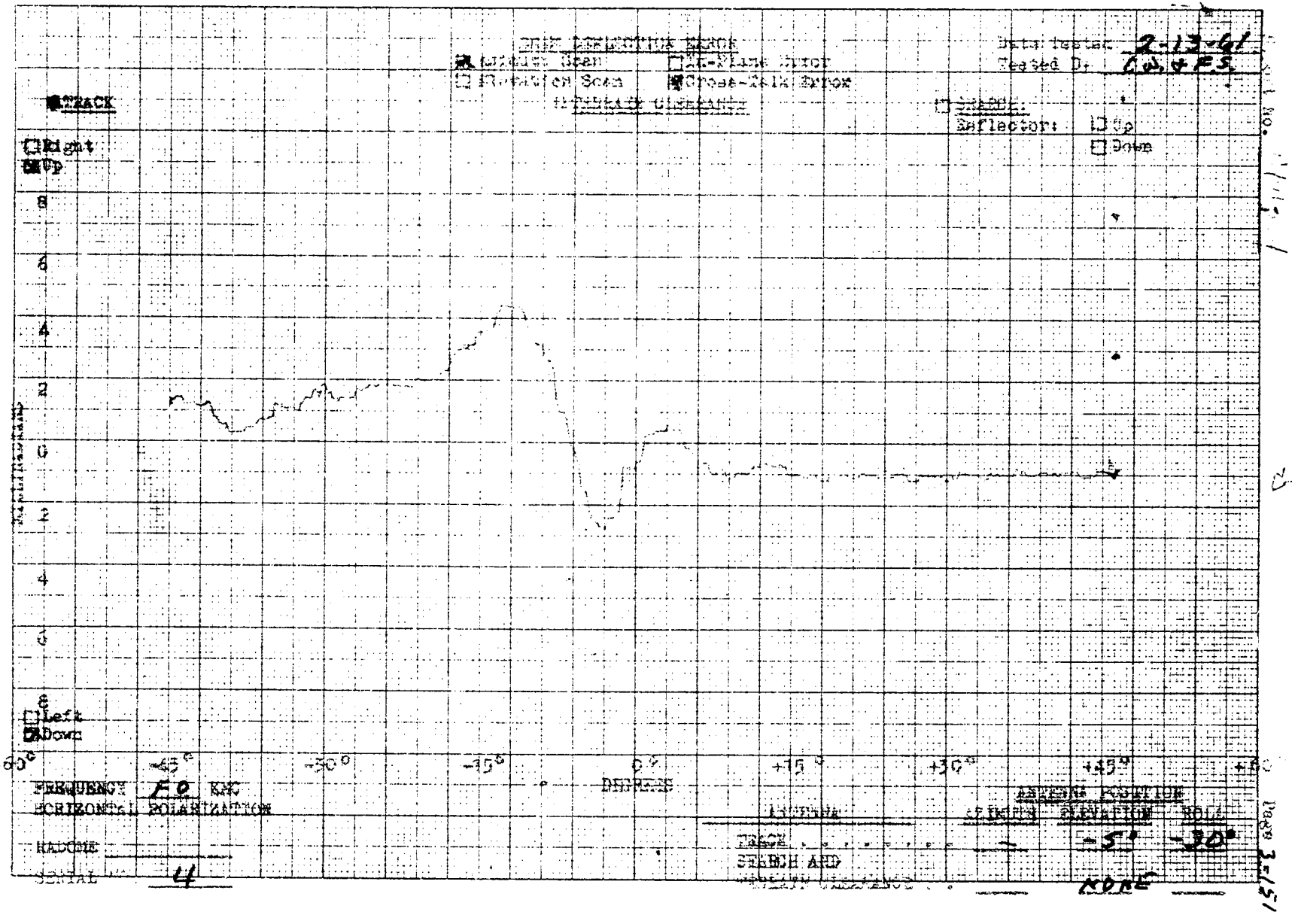
ANTENNA POSITION

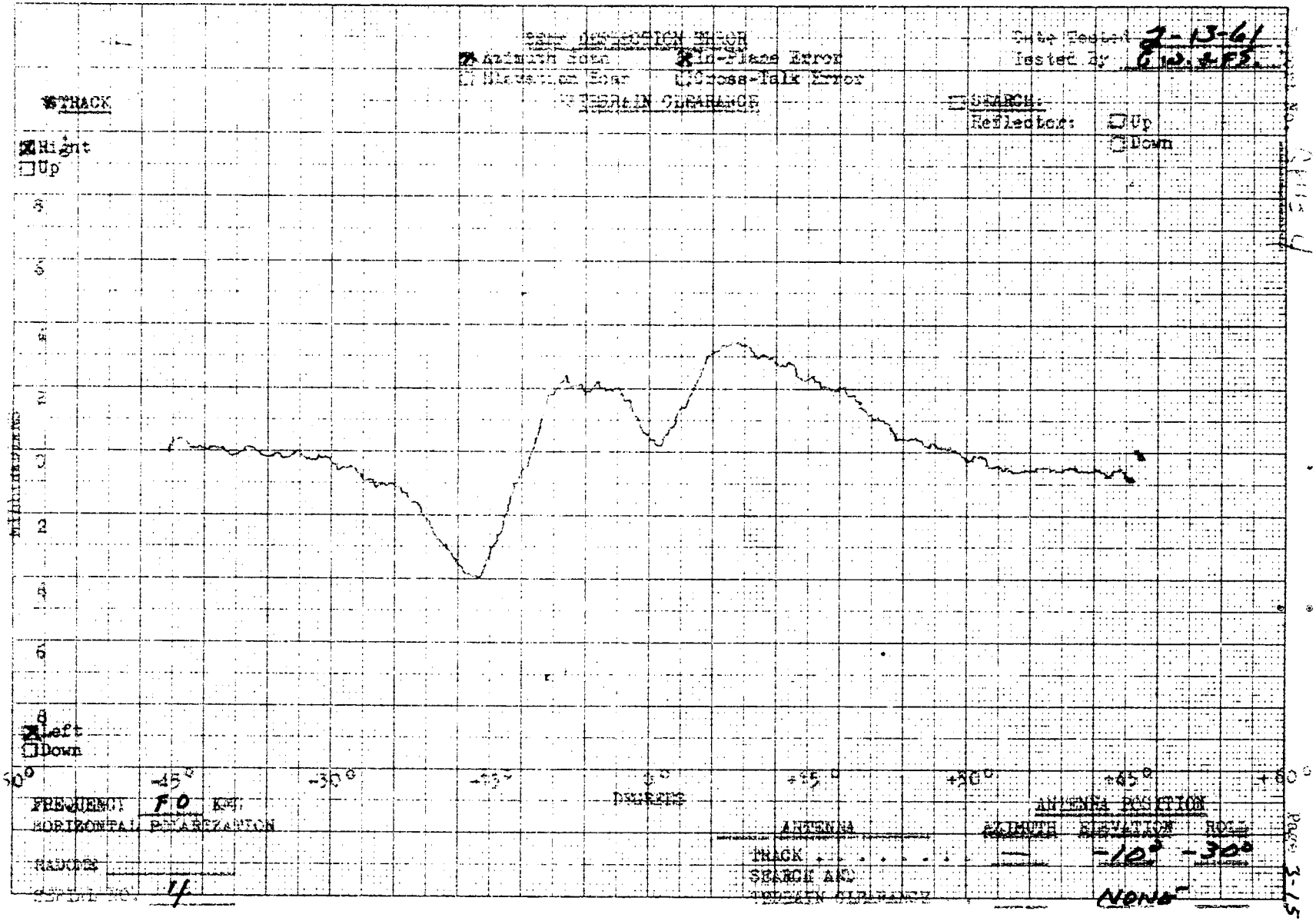
ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	0°	-30°
SEARCH AND TERRAIN CLEARANCE		NONE	

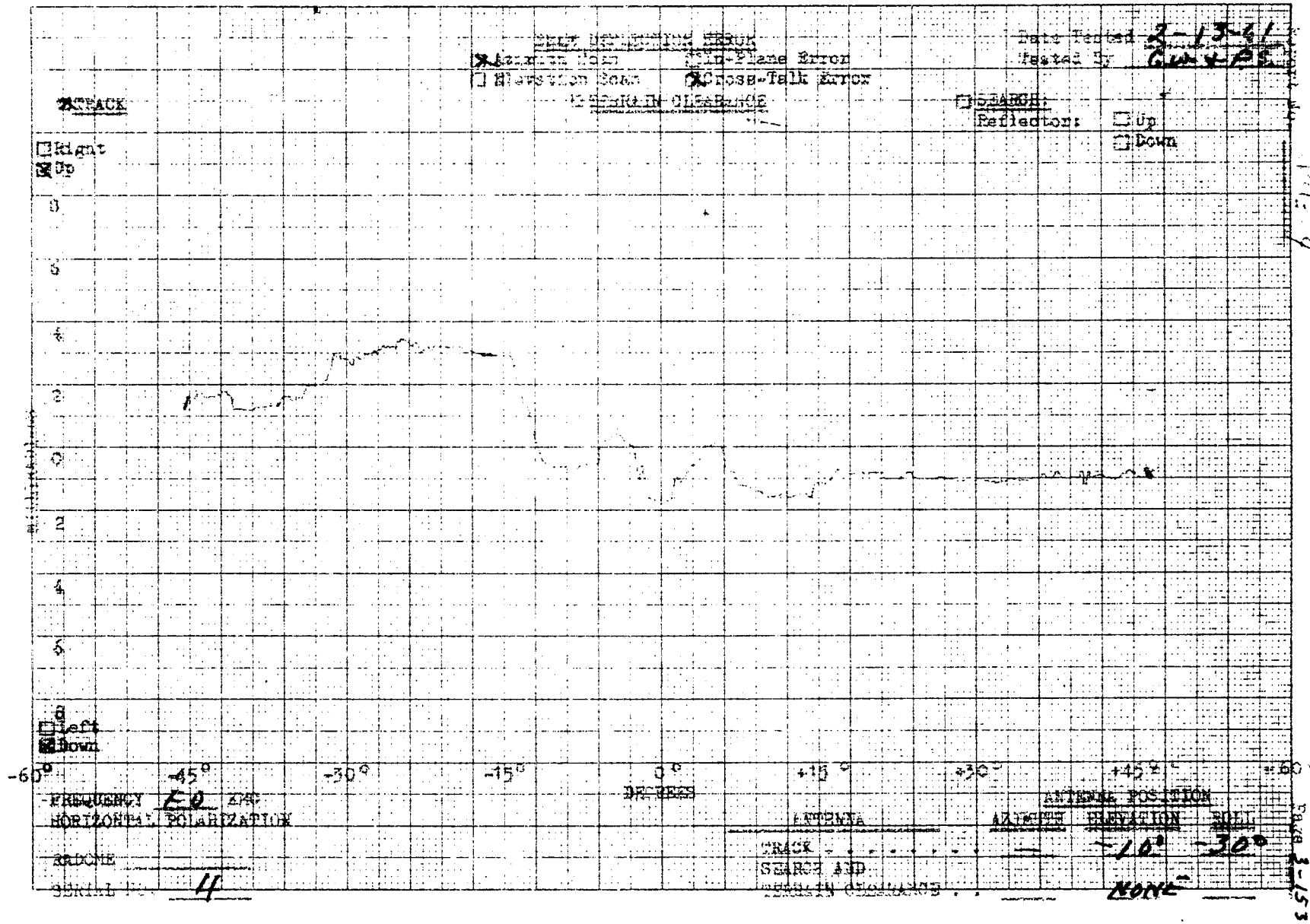
Page 3-149

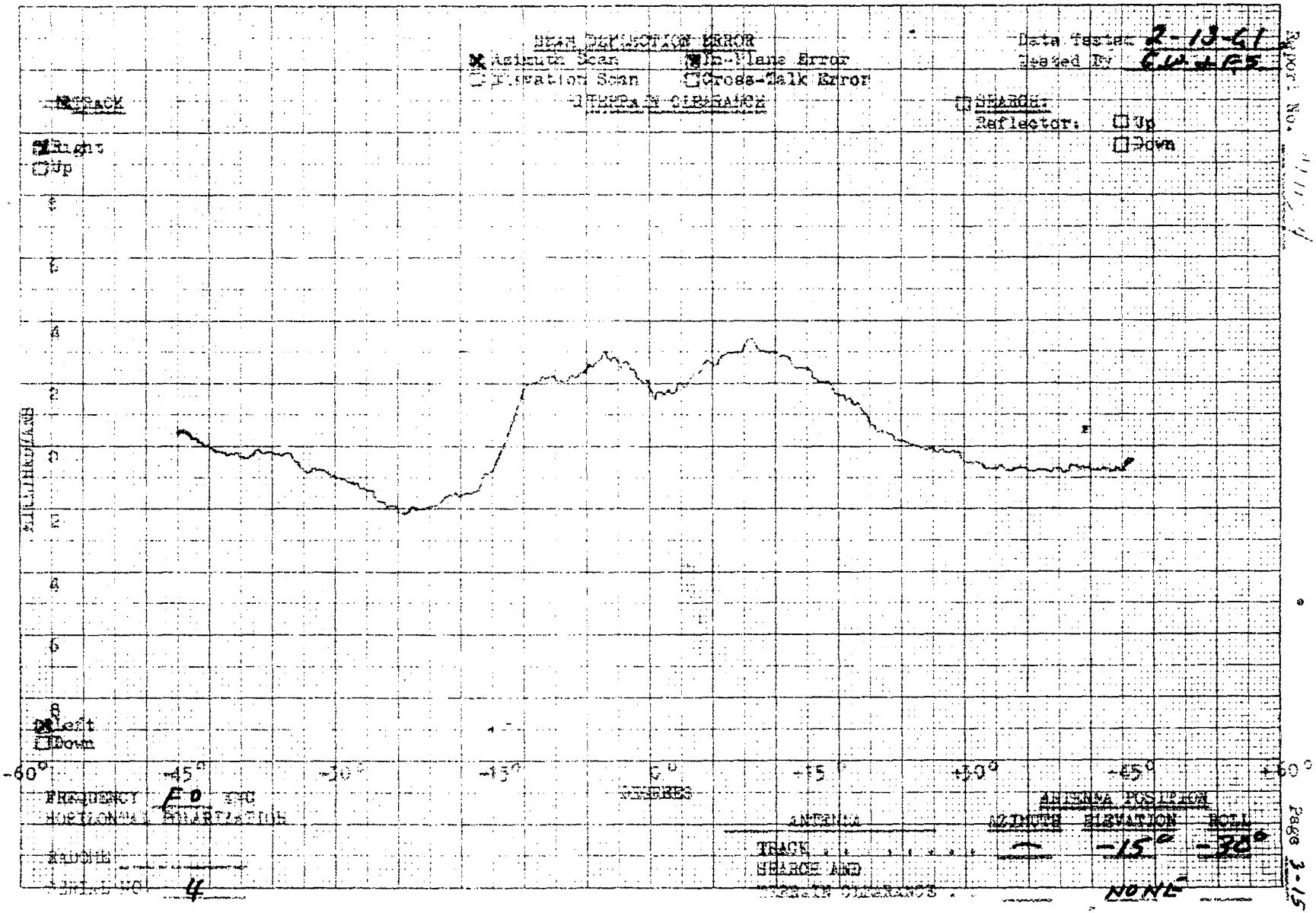
P-4

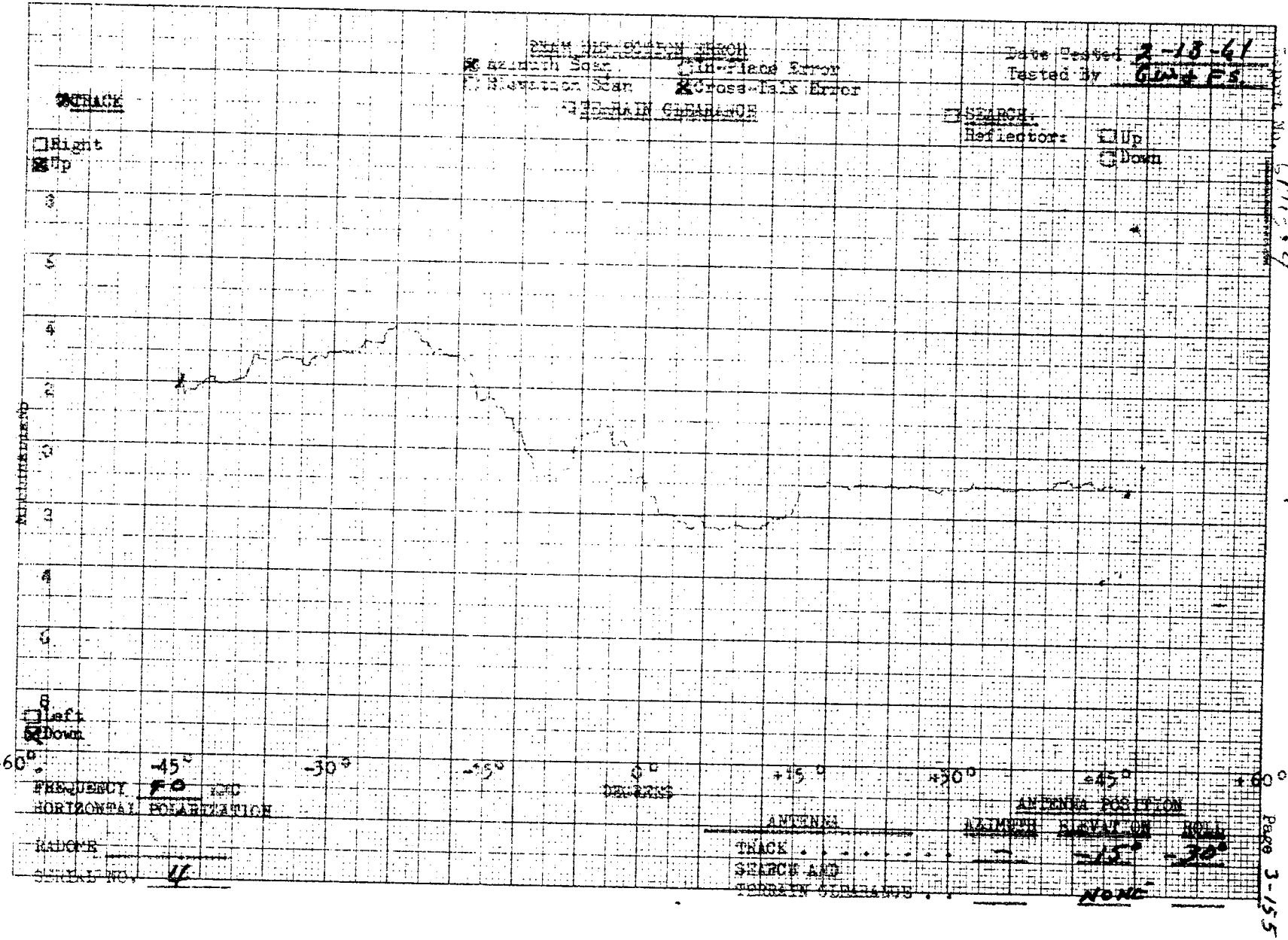

Right
Left
Down
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
Date Tested 2-13-61
Tested By Ew + Fs.
Deflector: Up Down
Track
Search
Frequency 10 KMC
Horizontal Polarization
Range 3
Track
Search and
Monitor
Antenna Position
Azimuth
Elevation
Roll
-5°
-30°
None
3-150

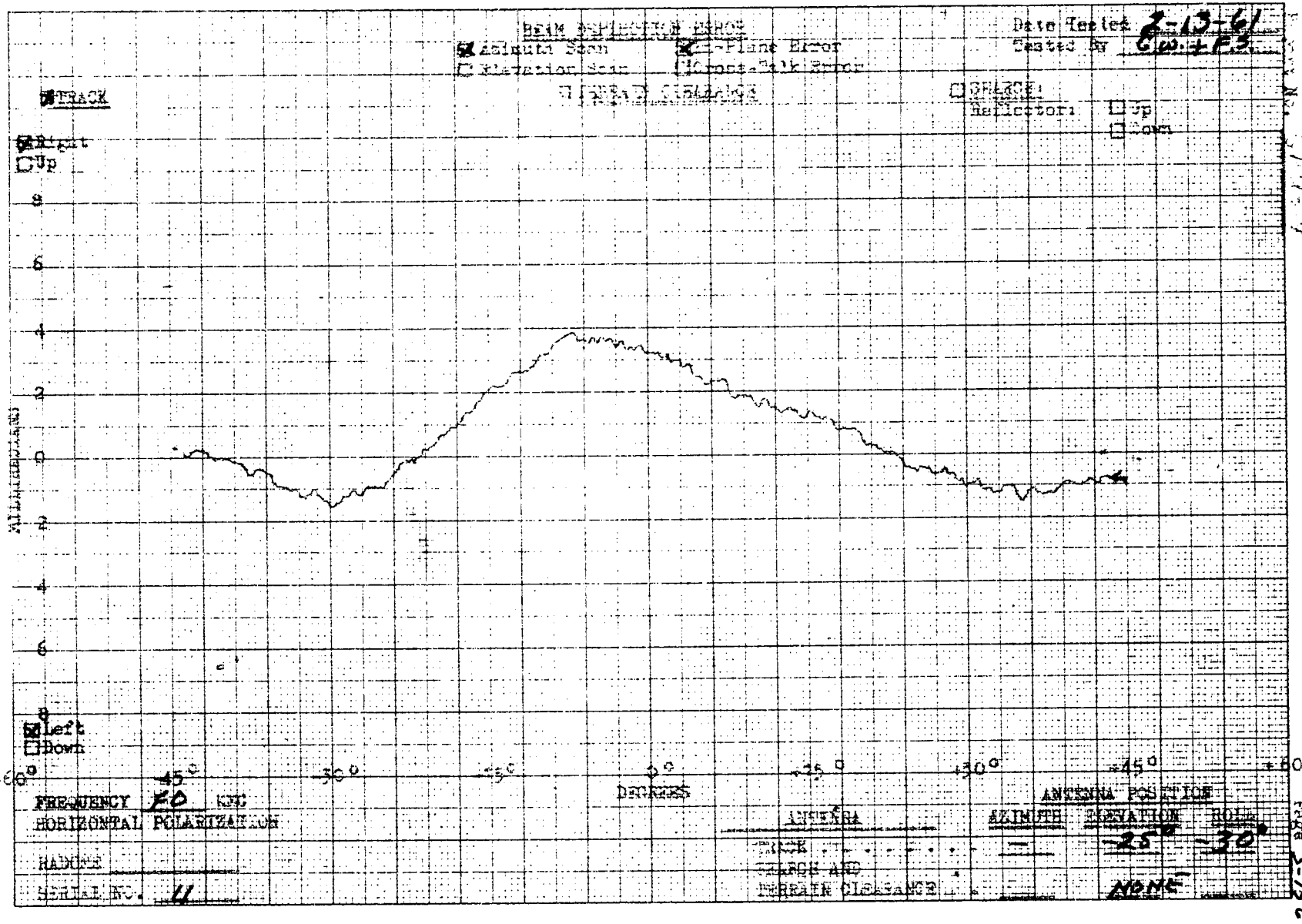

Azimuth Scan
Elevation Scan
Cross-Axis Error
Beam:
Deflector:
Up
Down
TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-5°
-30°
NONE
TRACK
SEARCH AND
4

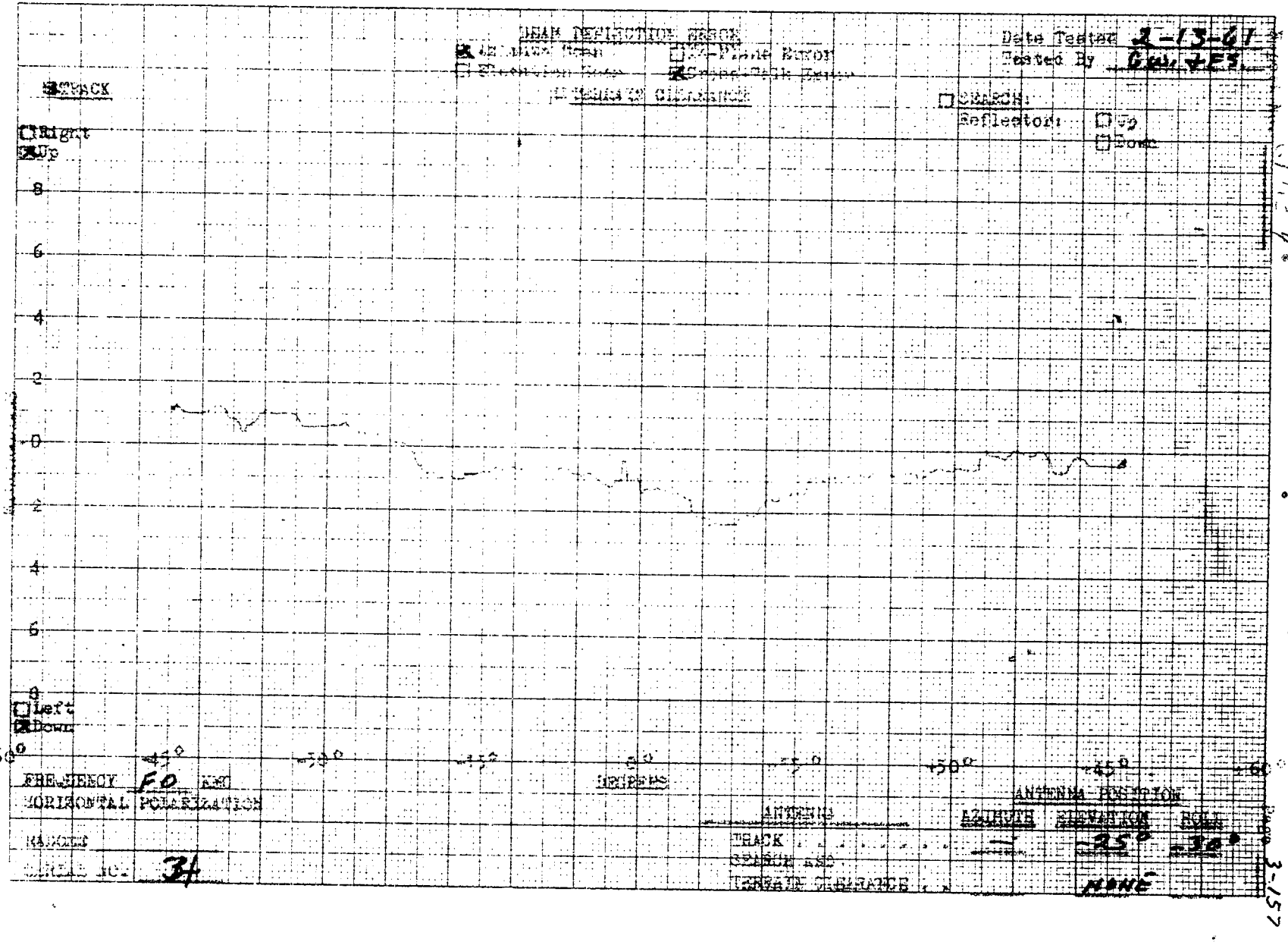

Date Tested 2-13-61
Tested By E.D. & F.S.
Azimuth Scan
Hi-Place Error
Azimuth Error
Cross-Talk Error
TRACK
SEARCH
Reflector: Up Down
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY: F0 MC
HORIZONTAL POLARIZATION
RADOME
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
TRACK
SEARCH
-10°
-30°
None
Page 3-152

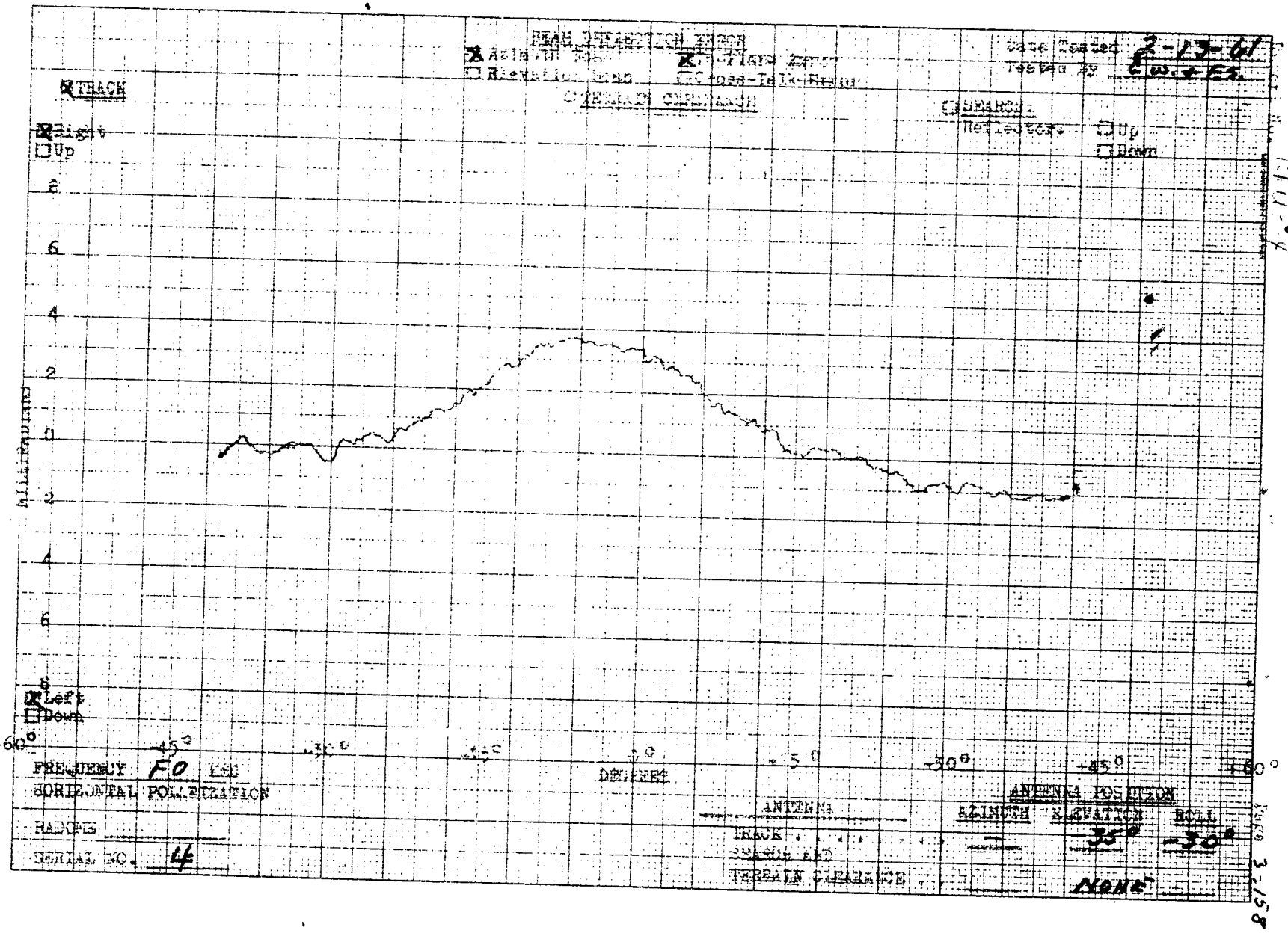

Date Tested 2-13-61
Tested By Gunter
TRACK
Right
Up
Left
Down
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
Reflector: Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 20 MC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° -30°
NONE
SERIAL No. 4
3-153

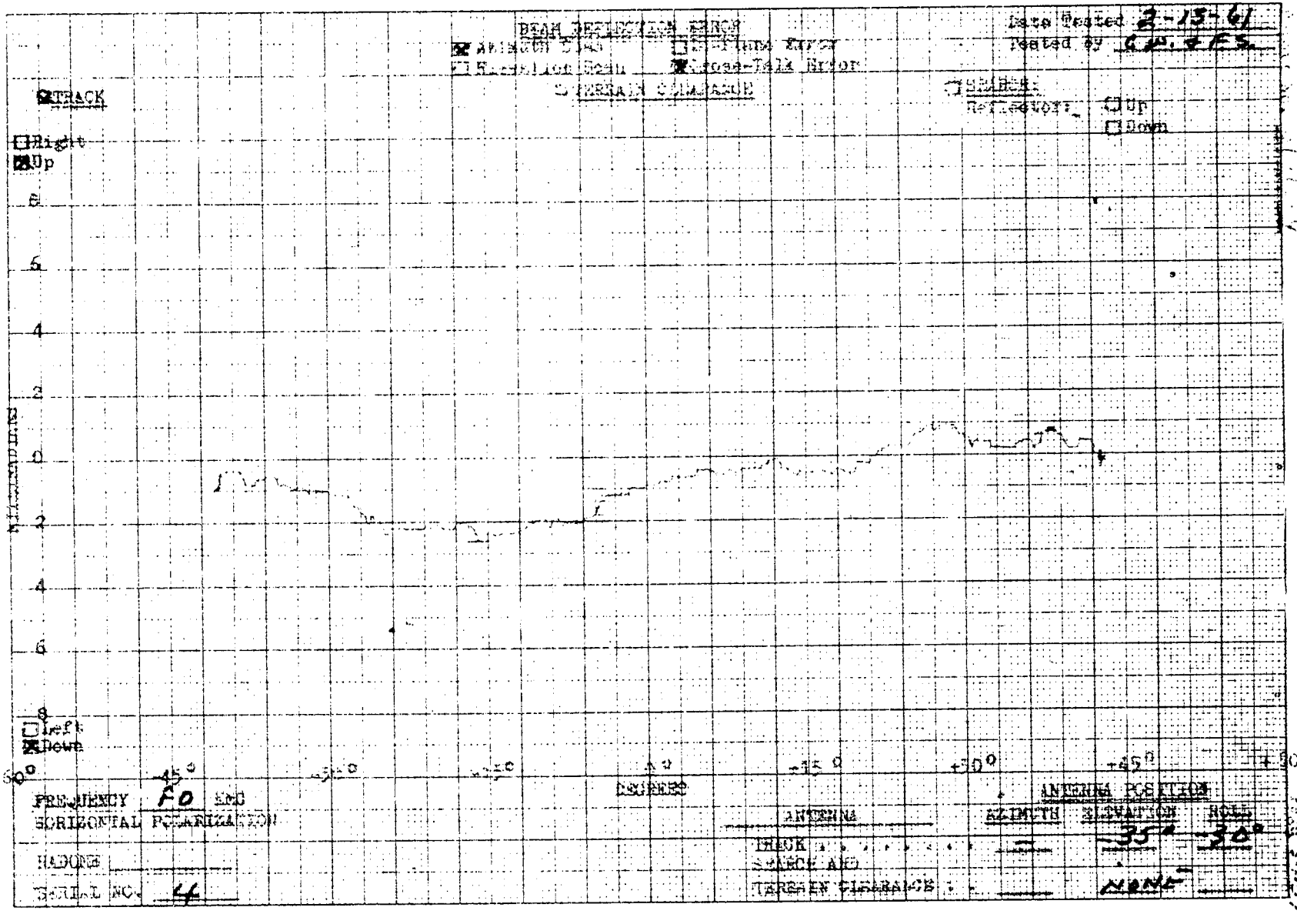

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
Data Tested 2-13-61
Tested By C.W. + F.S.
Report No.
Track
Right
Up
Left
Down
Sharon:
Reflector:
Up
Down
AMPLITUDE
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 560 MC
ANTENNA POSITION
AZIMUTH -15°
ELEVATION -30°
TRACK
NONE
Page 3-154

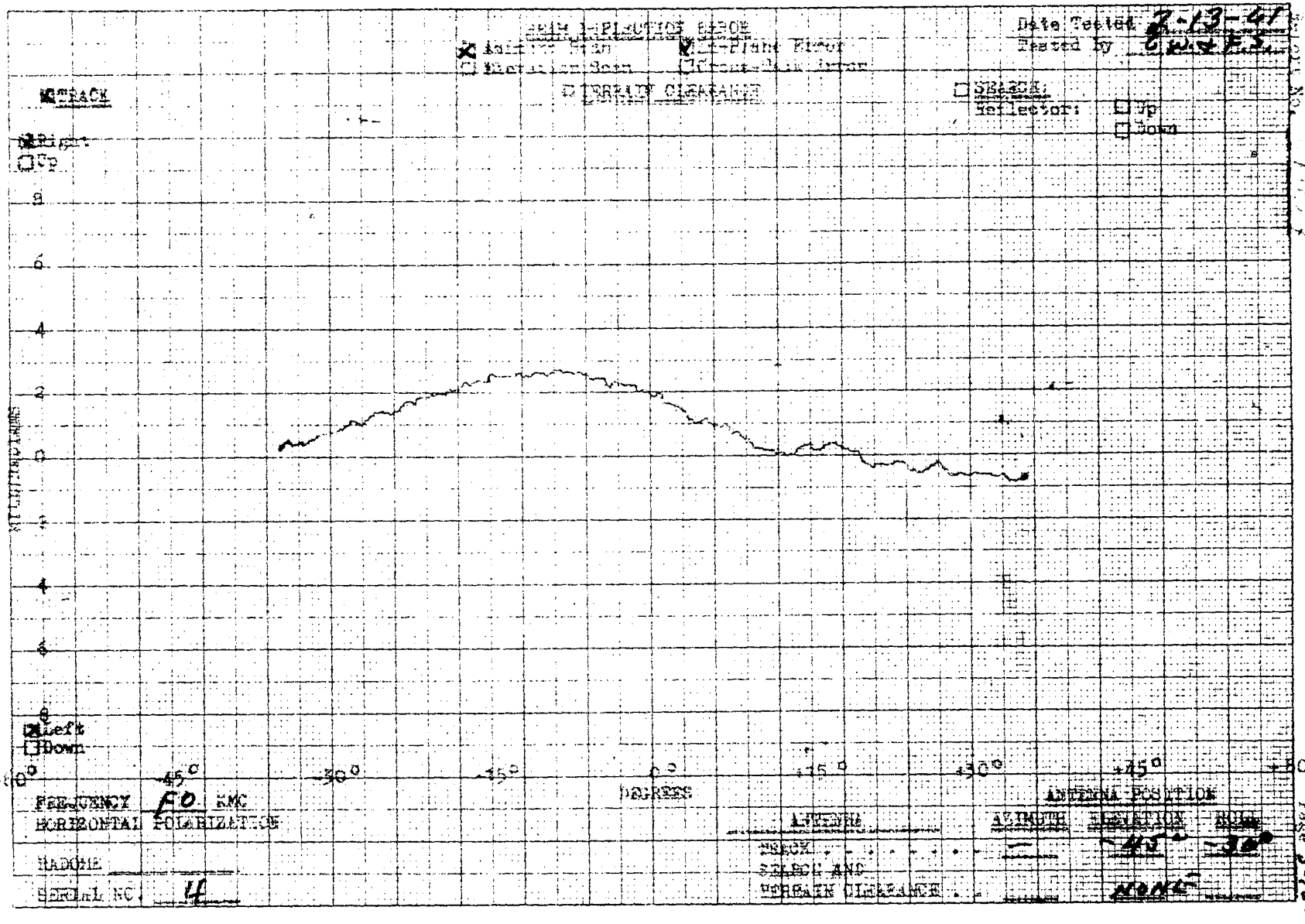

Azimuth Scan
Elevation Scan
In-Place Error
Cross-Talk Error
Date Tested 2-18-41
Tested By GWH & FS
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY F0 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
NONE
Page 3-155

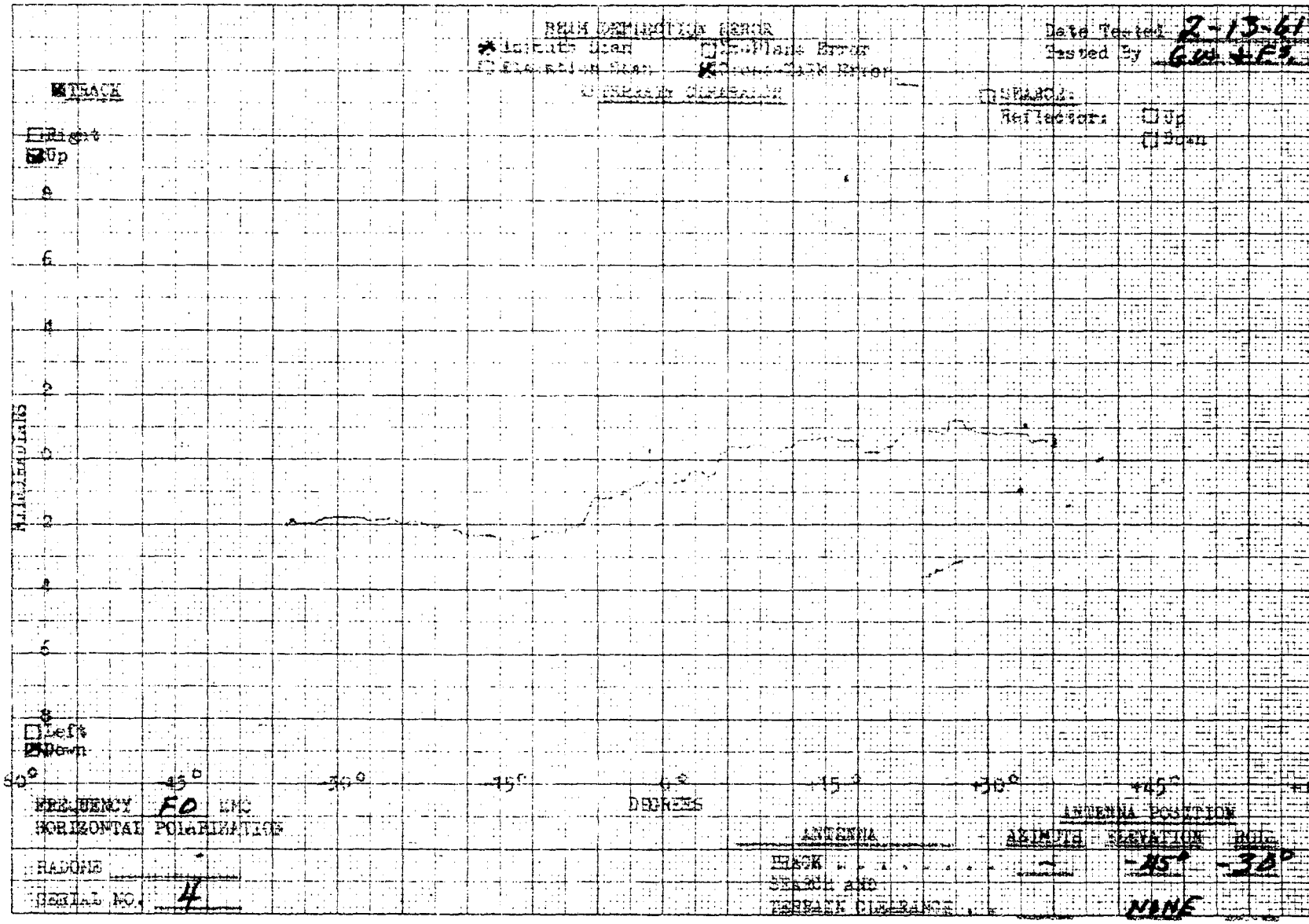

Beam Position Error
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
Date Tested 2-13-61
Tested By GW+FS
TRACK
Right
Up
Left
Down
Reflector: Up
Down
9
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 20 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 11
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-25° -30°
NONE


BEAM DEFLECTION PLANE
Date Tested 2-13-67
Tested By GW, JES
Back
Right
Up
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
ANTENNA
BACK
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-25° -30°
NONE
Page 3-157


BEAM DEFLECTION ERROR
Azimuth Axis
Elevation Axis
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-13-61
Tested By E.W. + E.L.
TRACK
Right
Up
SEARCH
Reflector
Up
Down
MILLIRADIANS
6
4
2
0
2
4
6
6
Left
Down
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY F0 Mc
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-35° -30°
None
3-15-61


BEAM DEFLECTION ERROR
Date Tested 2-15-61
Tested by C.P. & F.S.
TRACK
Right
Up
Left
Down
DEGREES
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-35°
-30°
NONE
FREQUENCY FO MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 44

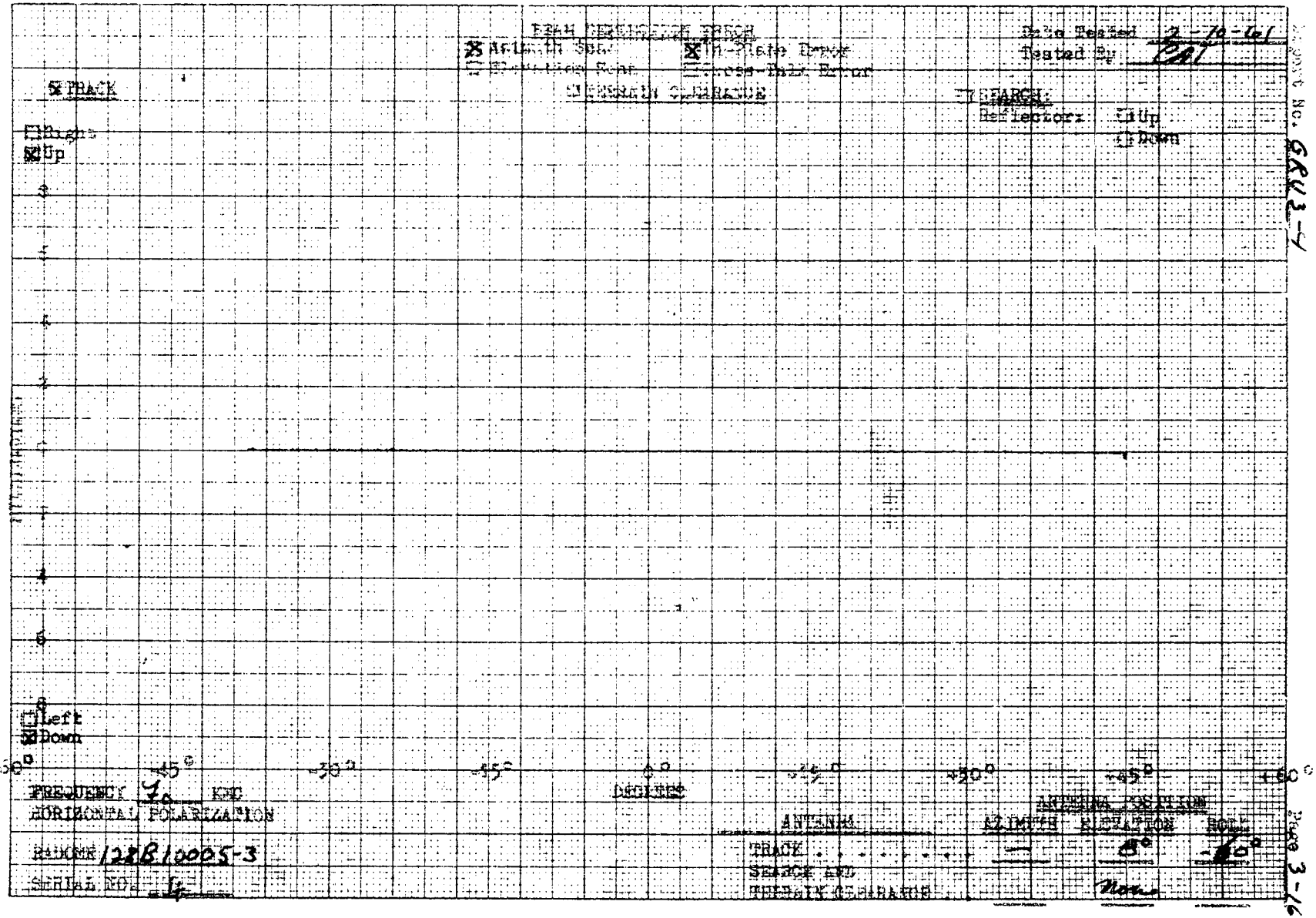

Date Tested 2-13-41
Tested by C.W.+E.S.
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
TERRAIN CLEARANCE
ATTENUATION
DEGREES
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 60 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
-45°
-30°
SELECT AND
TERRAIN CLEARANCE
Page 3-140

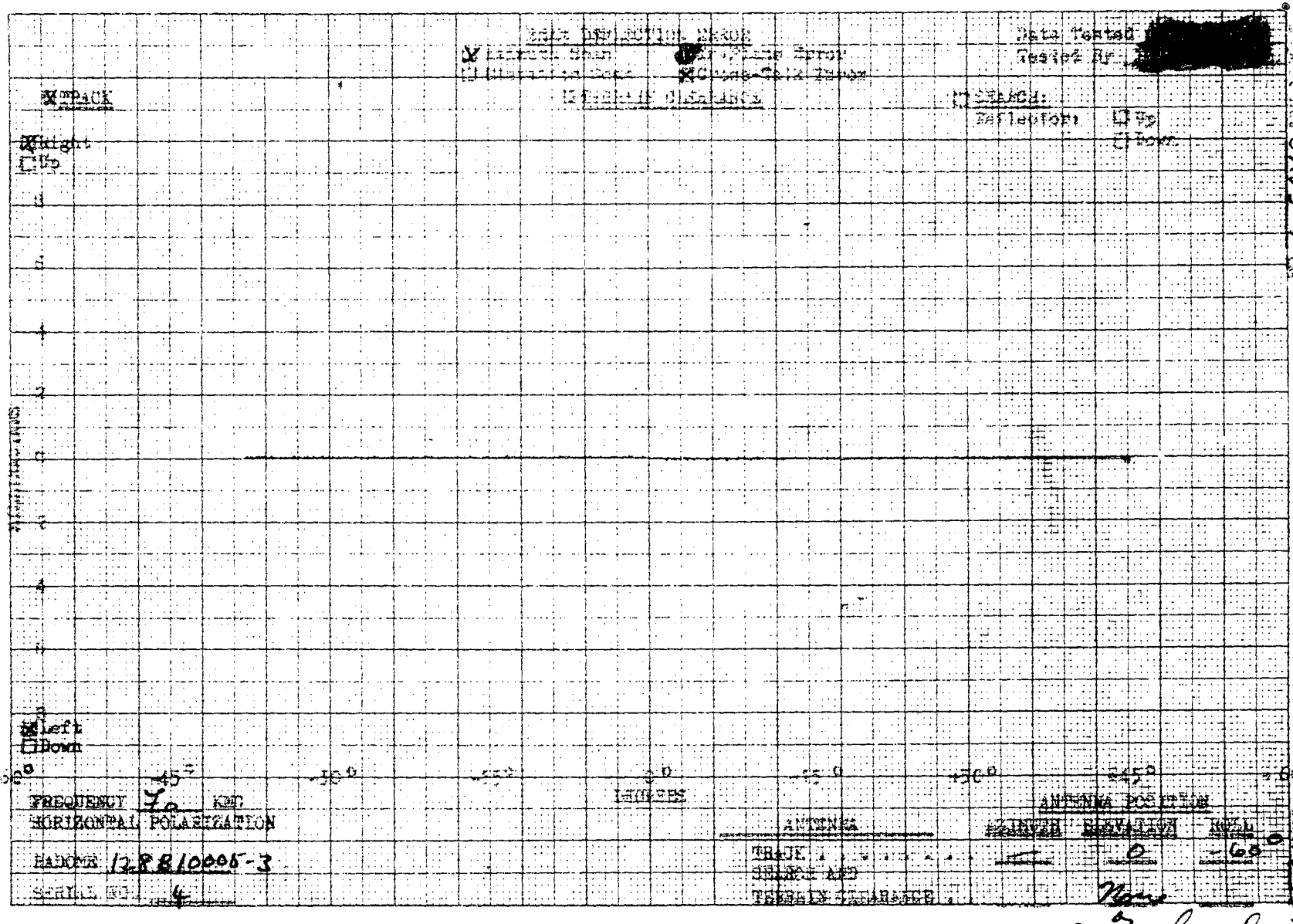

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Phase Error
Amplitude Error
Date Tested 2-13-64
Tested By GW + FS
TRACK
Right
Up
Left
Down
REFLECTORS:
Reflectors:
Up
Down
MILLIRADIANS
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
-45°
-32°
NONE

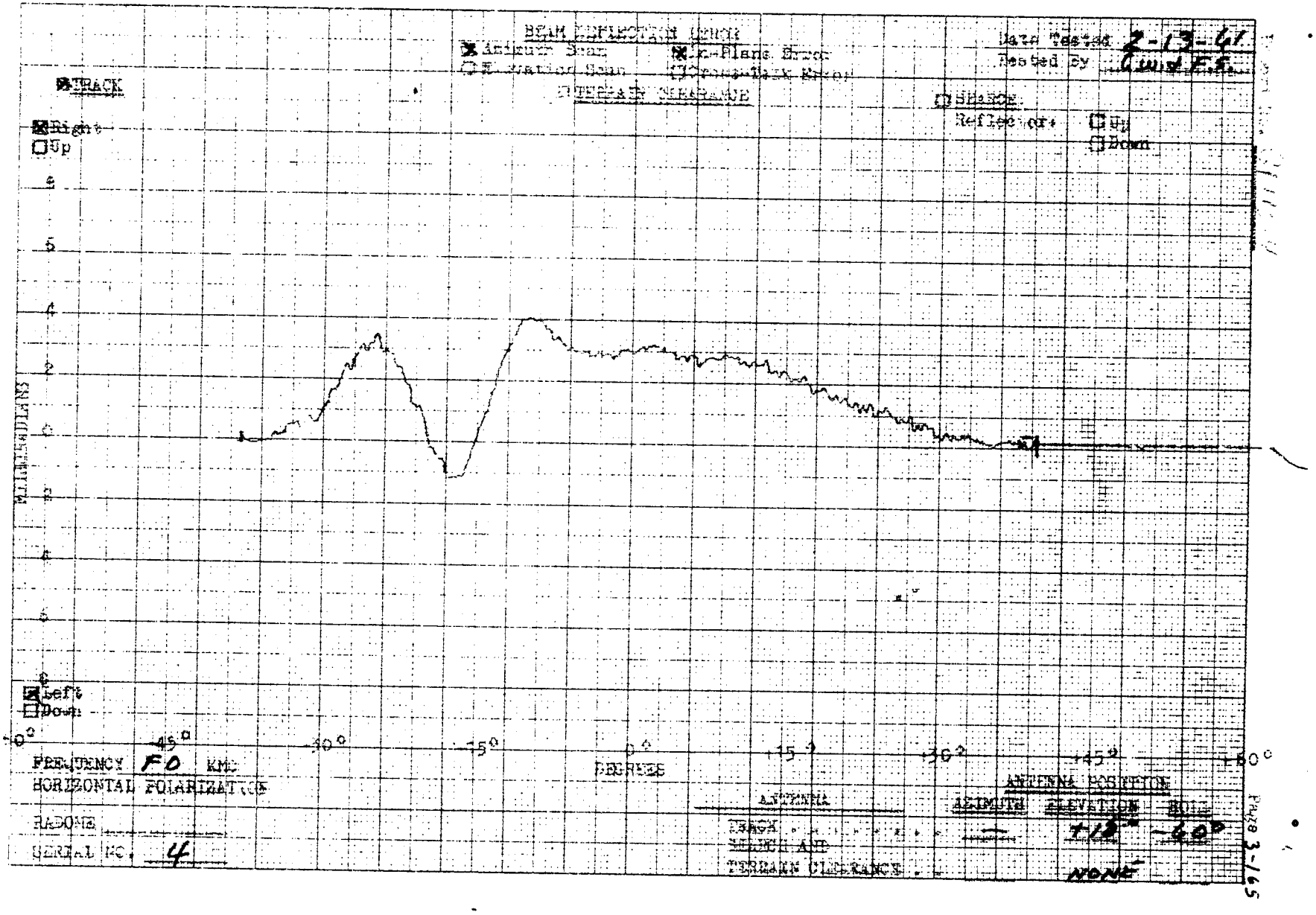
SECTION 36

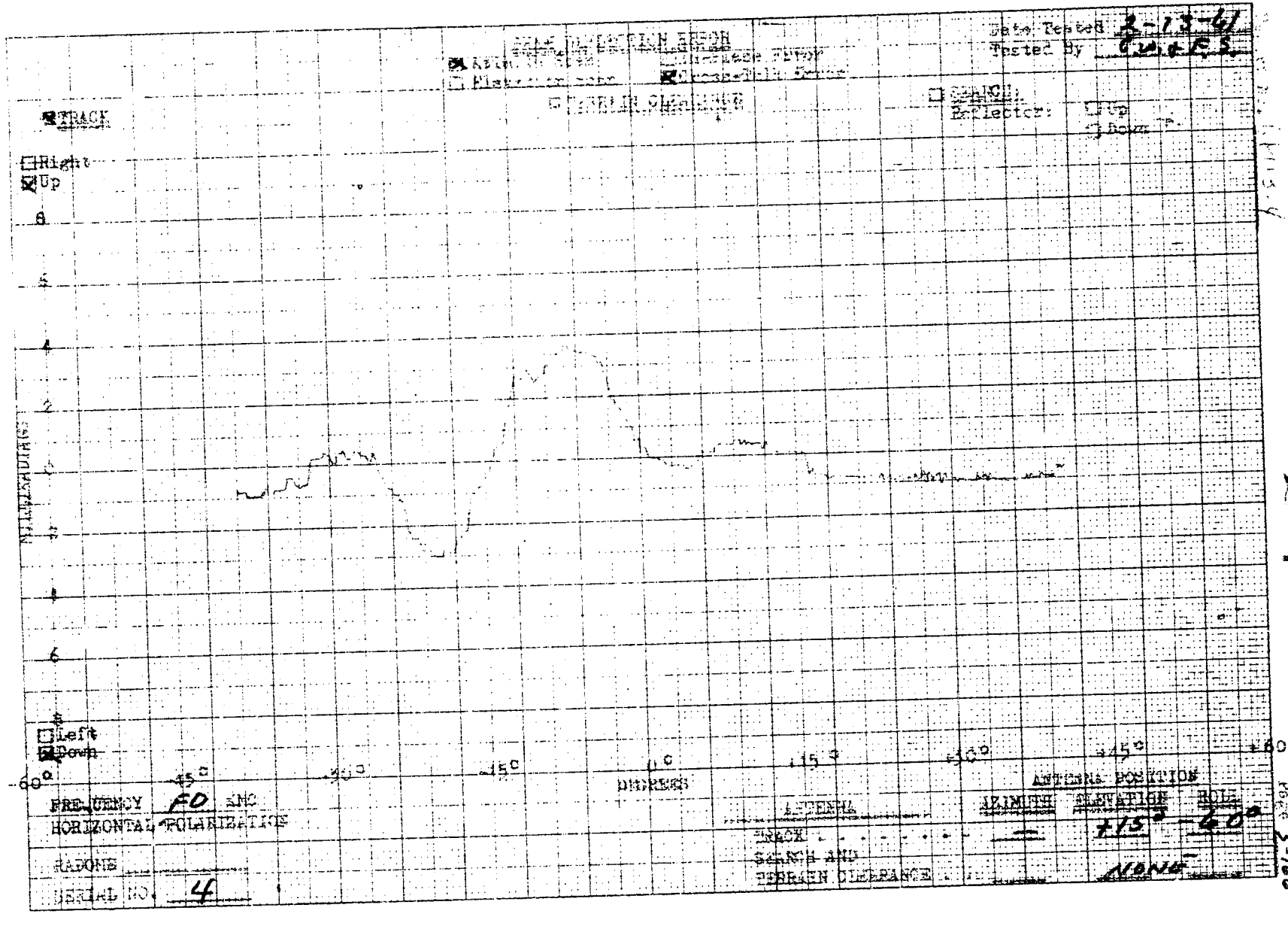
TRACK BORESIGHT ERROR

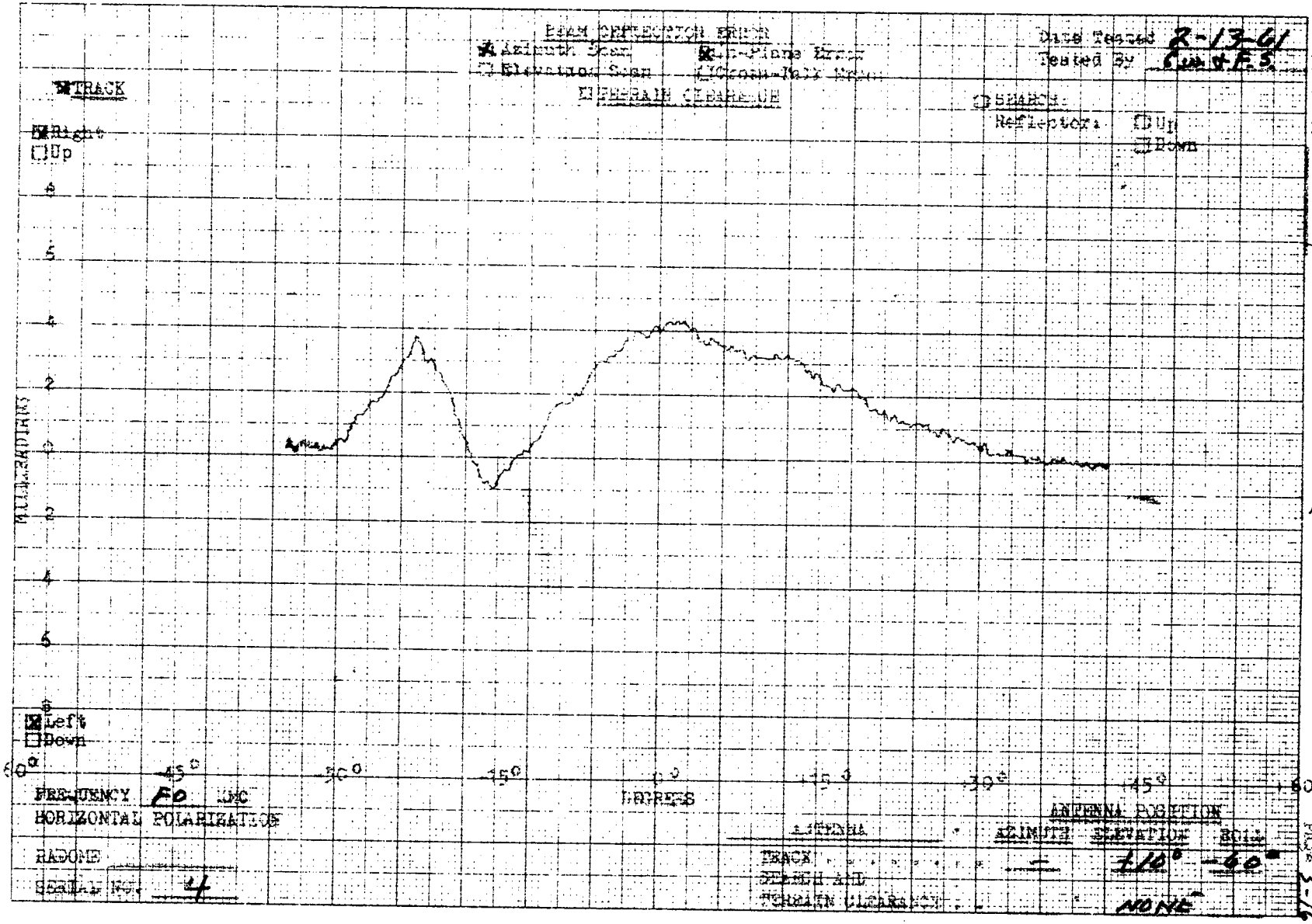
F_0 @ -60° ROLL

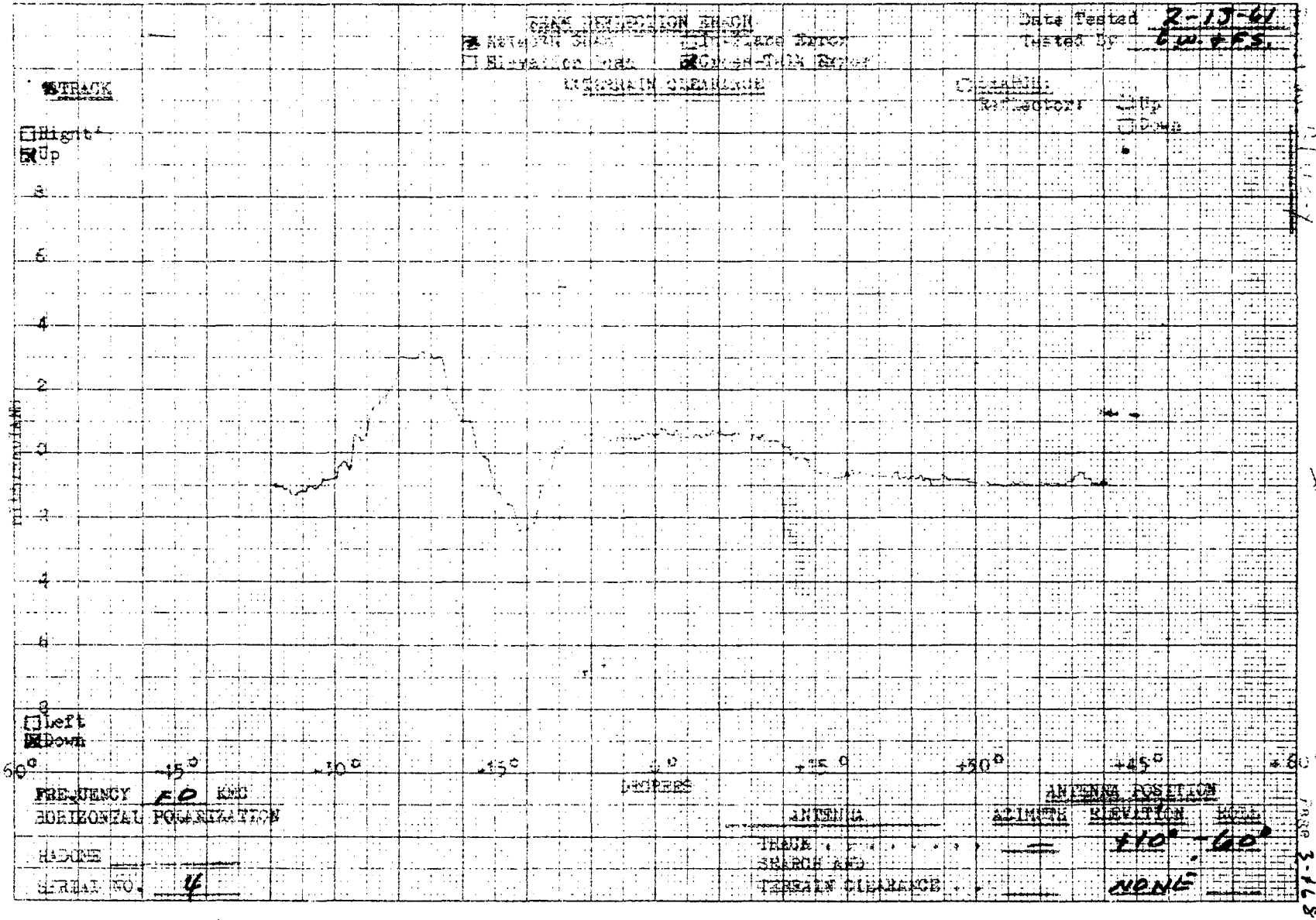

Data Tested 2-10-61
Tested By Cal
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY fo KMC
HORIZONTAL POLARIZATION
ANTENNA
TRACK
SEARCH AND
CERTAIN CLEARANCE
AZIMUTH ELEVATION
8°
-10°
None
No Radome


Data Tested
Tested By
Xback
Xright
Cup
Xleft
Down
FREQUENCY Fo MHz
HORIZONTAL POLARIZATION
RADOME 12.8 R10005-3
SERIAL NO. 4
ANTENNA
TRUE
AND
ANTENNA POSITION
ELEVATION
0
AZIMUTH
0
Nose
100% lined
GRU3-4
3-14


BEAM DEFLECTION USED:
Azimuth Scan
E-Plane Beam
Elevation Scan
H-Plane Beam
TERRAIN CLEARANCE
Date Tested 2-13-64
Tested by EWS FS
TRACK
Right
Up
SHAPE
Reflector
Up
Down
MILLIMETERS
6
5
4
3
2
1
0
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY F0 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
BEAM
SELECT AIR
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
+12°
-40°
NONE
Page 3-165


Date Tested 3-13-61
Tested By G.W.C.S.
TRACK
Right
Up
Left
Down
MILLIAMPERES
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FO MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+15° -60°
NONE


Beam Orientation Scan
Azimuth Scan
Elevation Scan
E-Plane Data
H-Plane Data
Cross-Pol Data
TERRAIN CLEARANCE
Date Tested 8-13-61
Tested By Gulf E.S.
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fo MC
HORIZONTAL POLARIZATION
RADOME
SERIAL No. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
BOTH
TRACK
+10°
-60°
SEARCH AND
TERRAIN CLEARANCE
NONE
Page 3-17


Date Tested 2-15-61
Tested By C.W. & F.S.
TRACK
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 50 KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
+10° -60°
NONE
SERIAL NO. 4

10 X 10 TO THE INCH 359 11G

BEAM DISPLACEMENT ERROR

Date Tested 2-13-61

Tested By BMJES

☒ Azimuth Sense ☒ In-Plane Error

☐ Elevation Sense ☐ Out-of-Plane Error

TERRAIN CLEARANCE

☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down

MILLIMETERS

6

4

2

0

2

4

6

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 20 MMC

HORIZONTAL POLARIZATION

RADOME

SERIAL NO. 4

ANTENNA

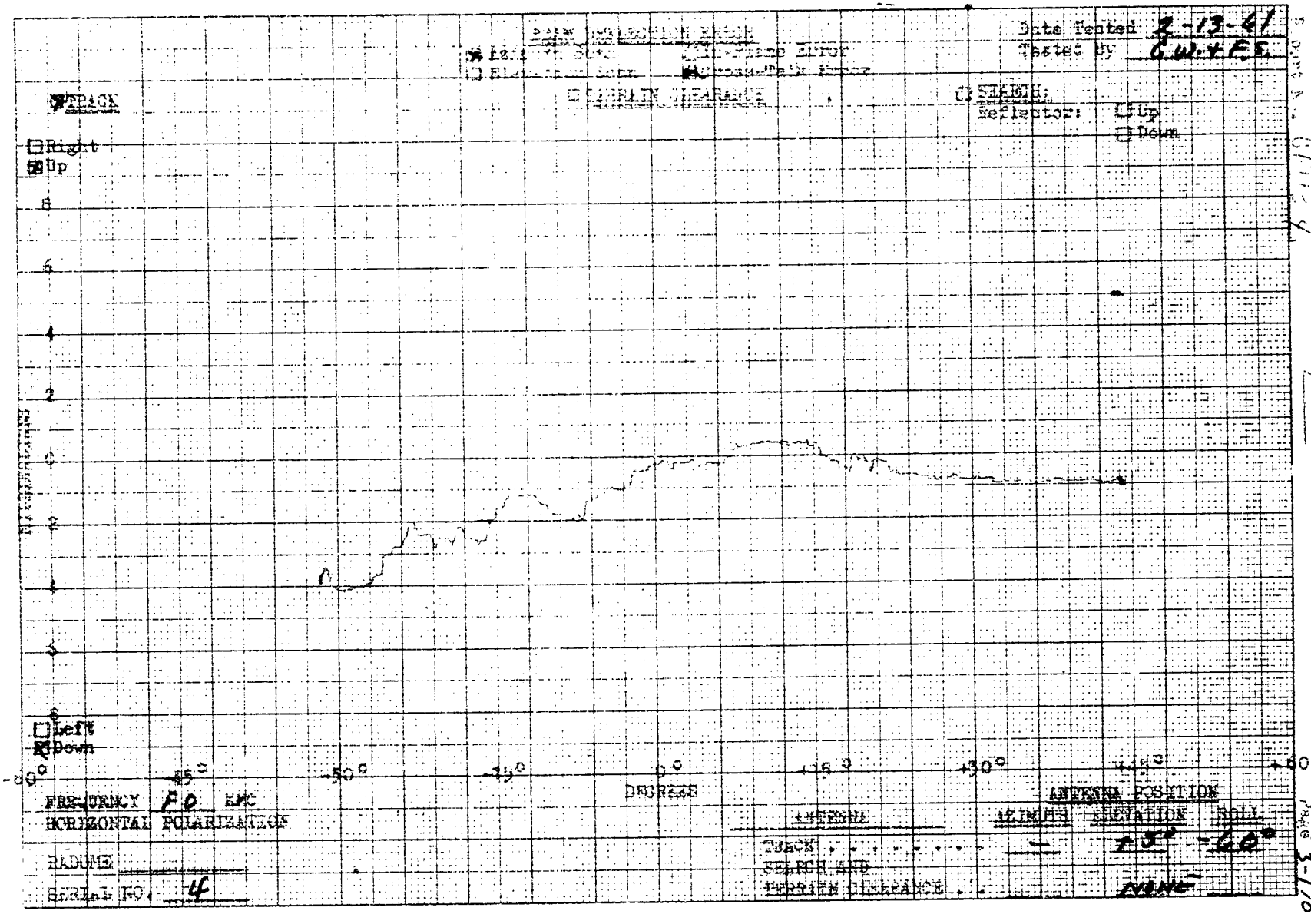
ANTENNA POSITION

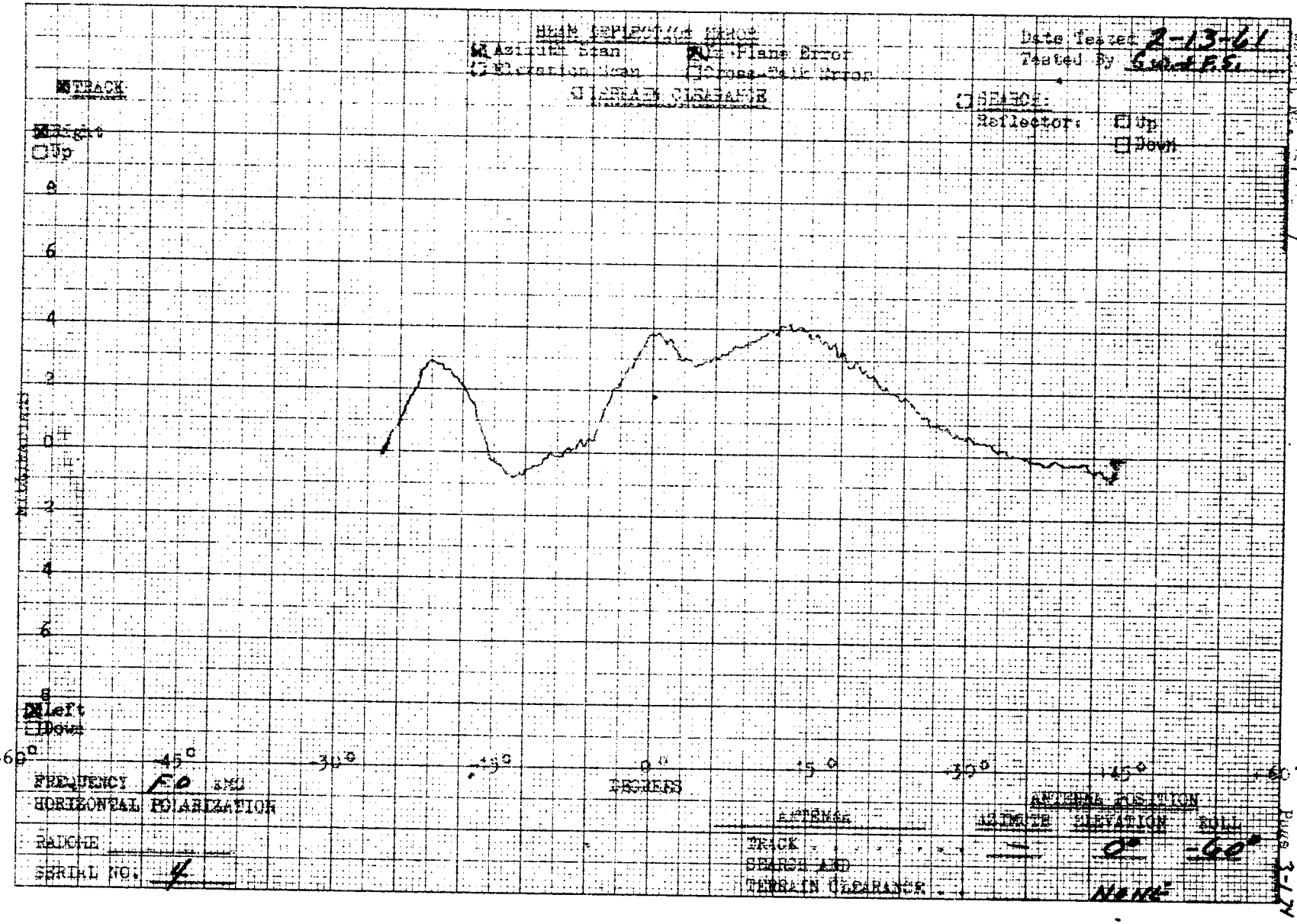
AZIMUTH ELEVATION ROLL

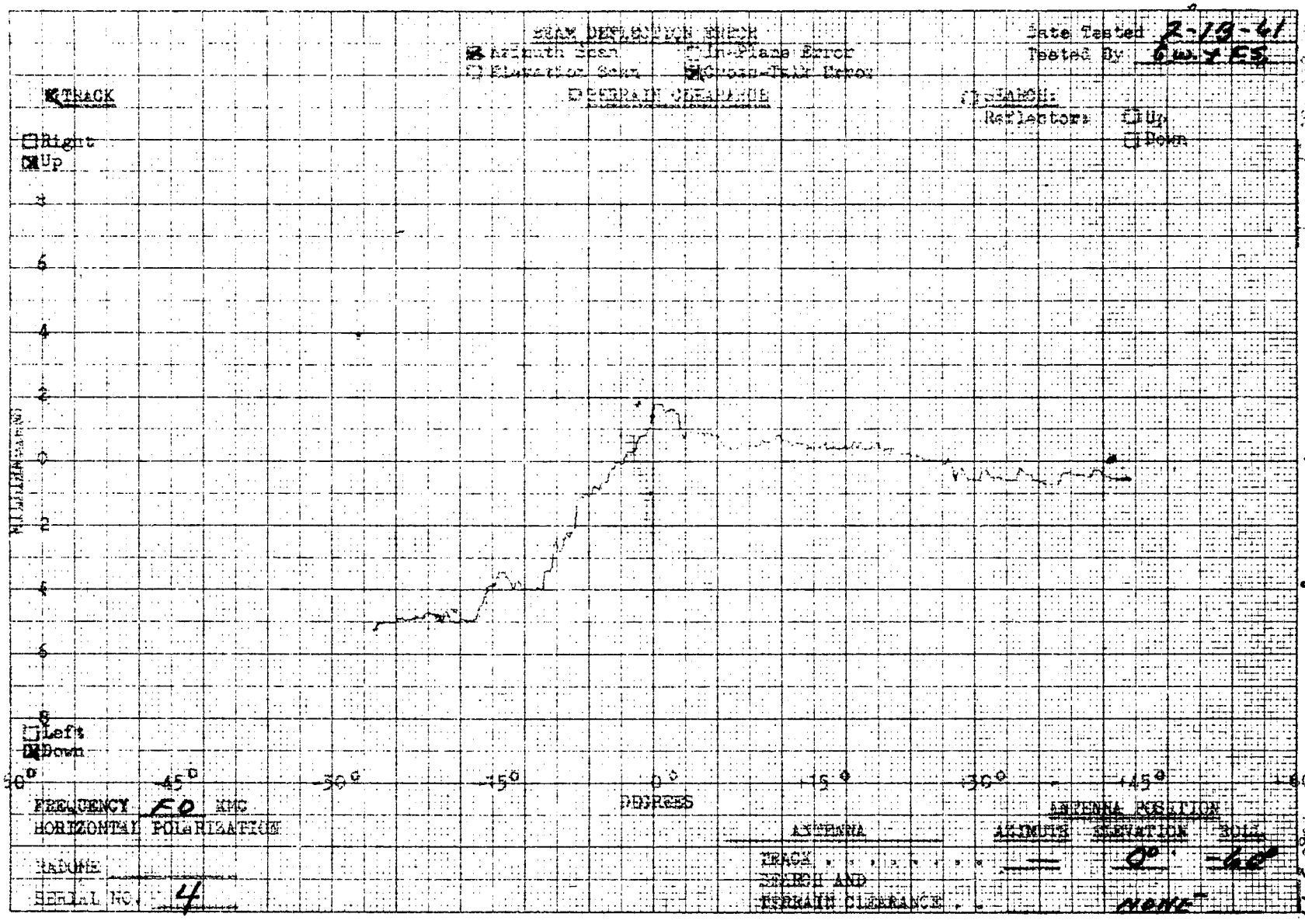
TERRAIN SEARCH AND TERRAIN CLEARANCE

0° -60° NONE

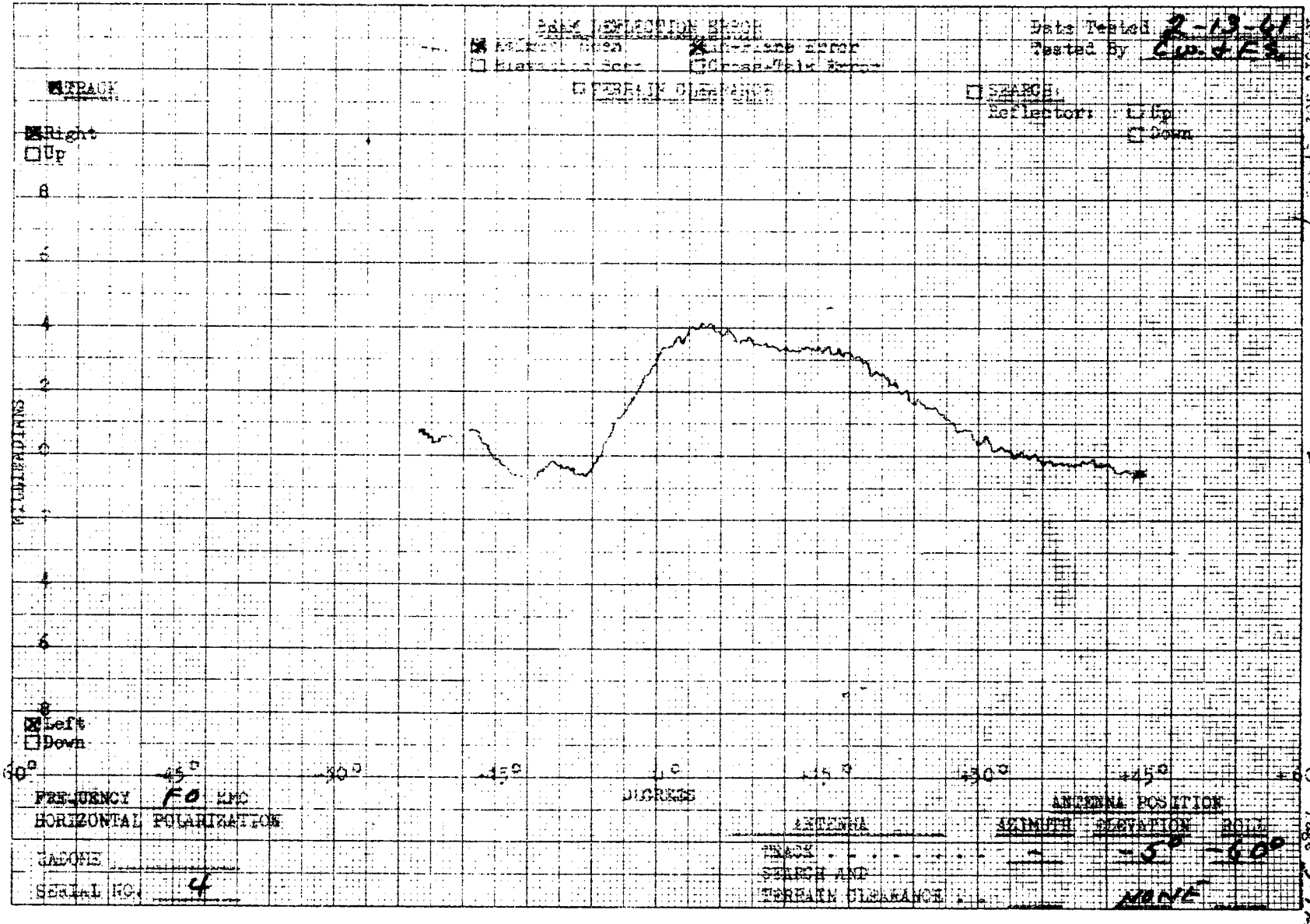
Page 3-169


Date Tested 3-13-67
Tested by C.W.+E.S.
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
-90°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+90°
DEGREES
FREQUENCY F0 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
BORE
+5°
-20°
SEARCH AND
TERRAIN CLEARANCE
AVG

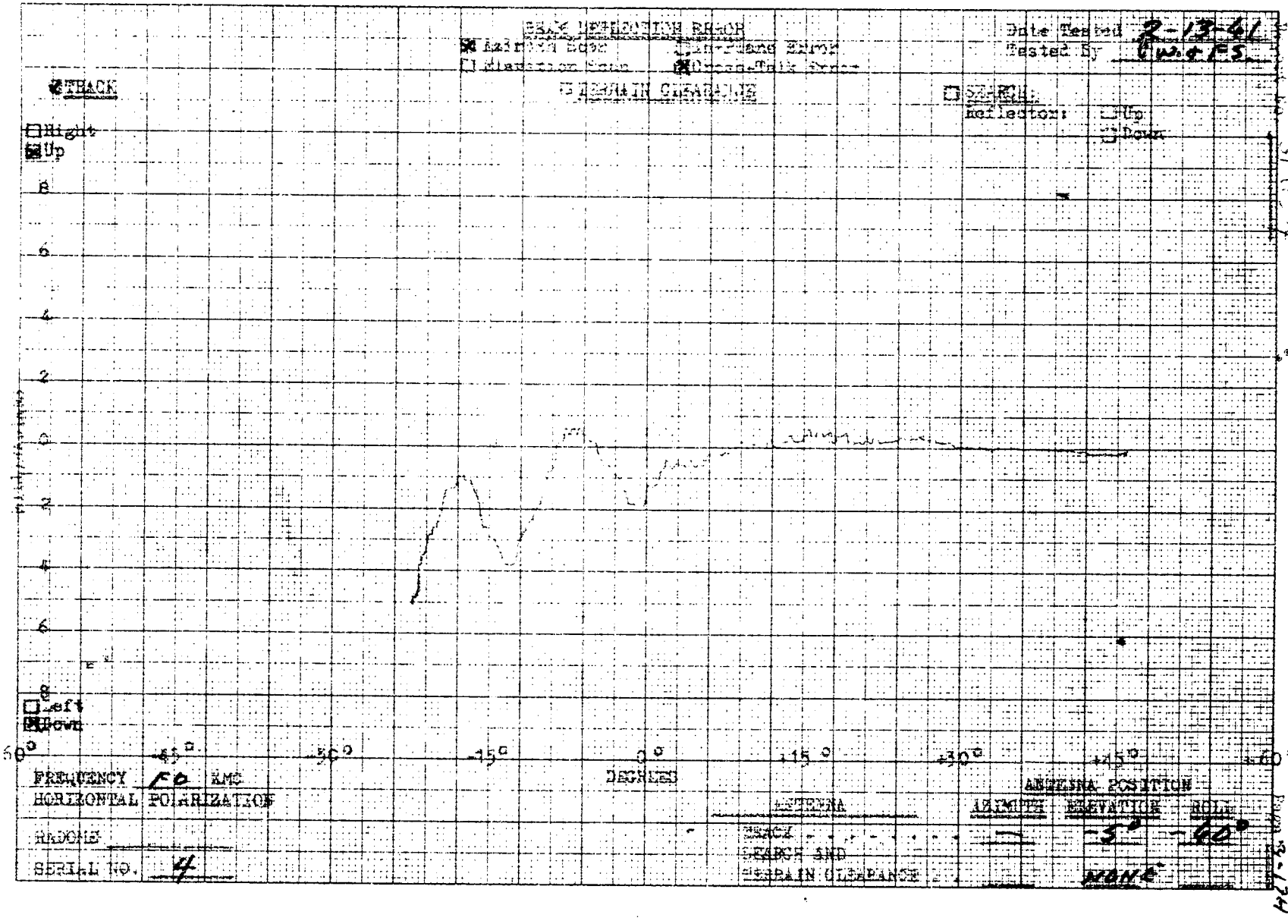

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Plane Error
Cross-Axis Error
TERRAIN CLEARANCE
Date Tested 2-13-61
Tested By C.W. F.E.
TRACK
Right
Up
SEARCH
Reflector:
Up
Down
MILLIAMPERES
6
4
2
0
2
4
6
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY 50 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
ELEVATION
ROLL
0°
-60°
TRACK
SEARCH AND
TERRAIN CLEARANCE
None
Page 3-174


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-19-61
Tested By G.W. & E.S.
TRACK
Right
Up
Left
Down
Reflectors
Up
Down
MILLIRADIANS
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 60 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
BOM
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
-6.0°
none

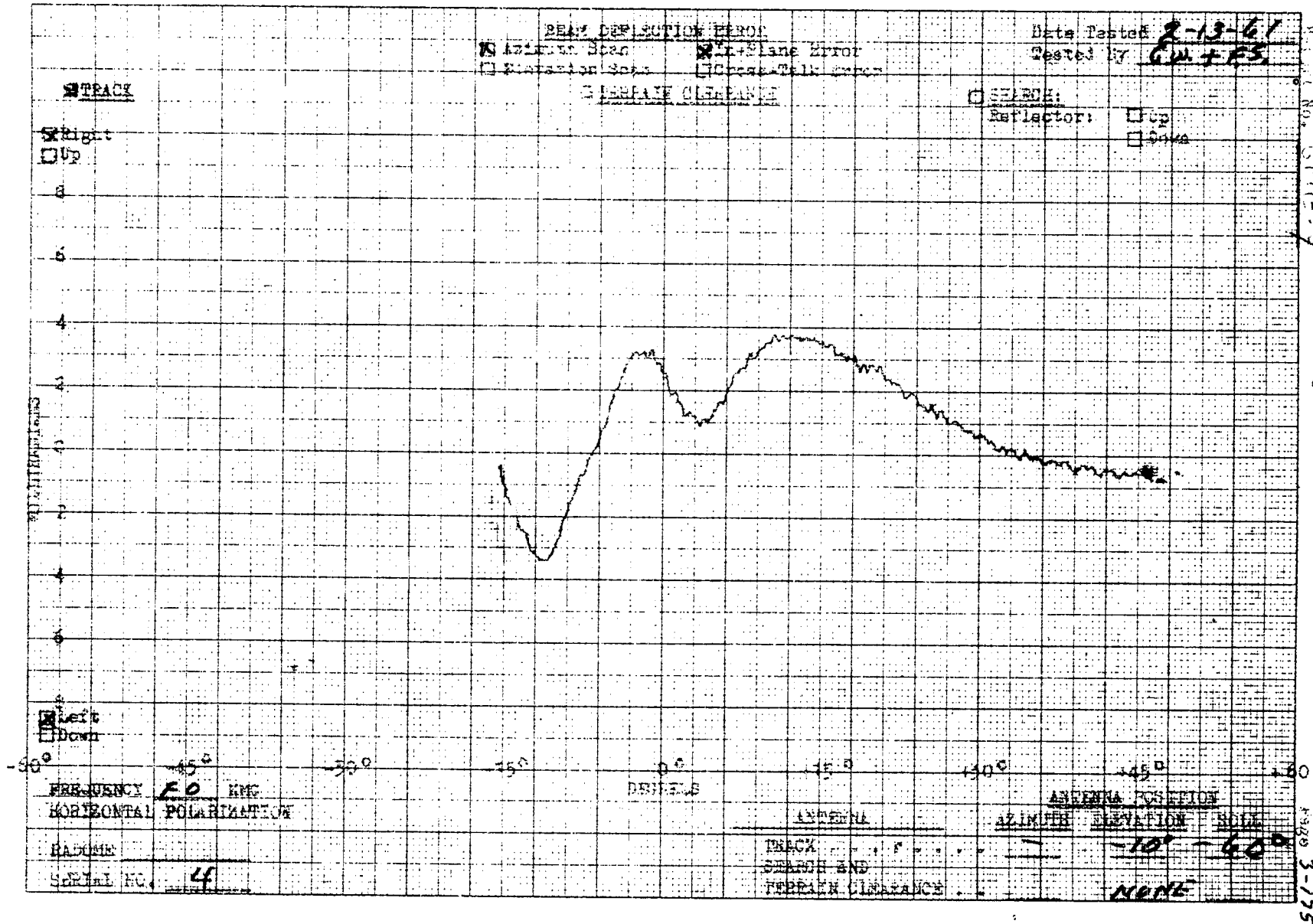
10 X 10 TO THE INCH 359-113

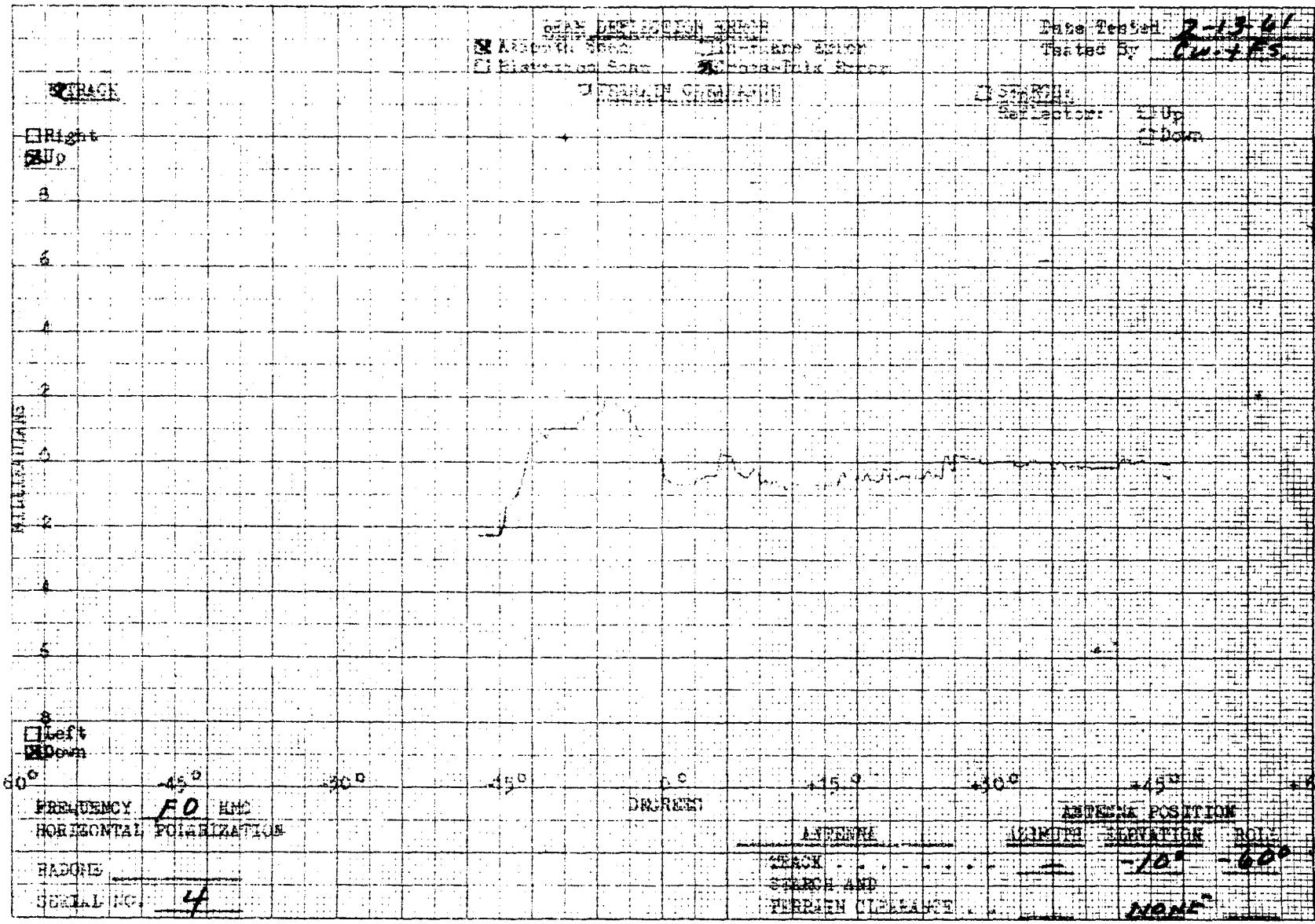


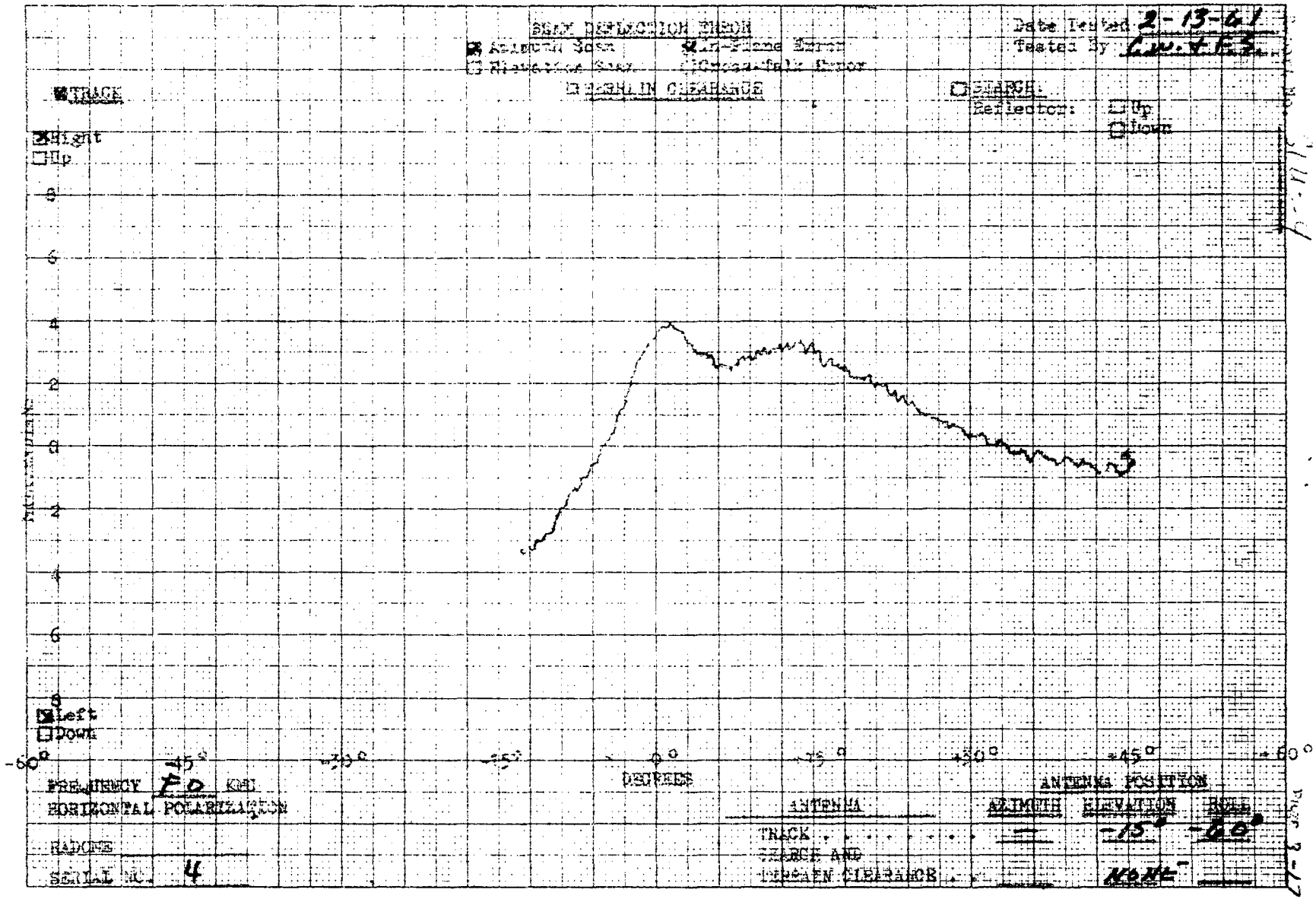
10 X 10 TO THE ½ INCH 359-110
KEUFFEL & ESSER CO.

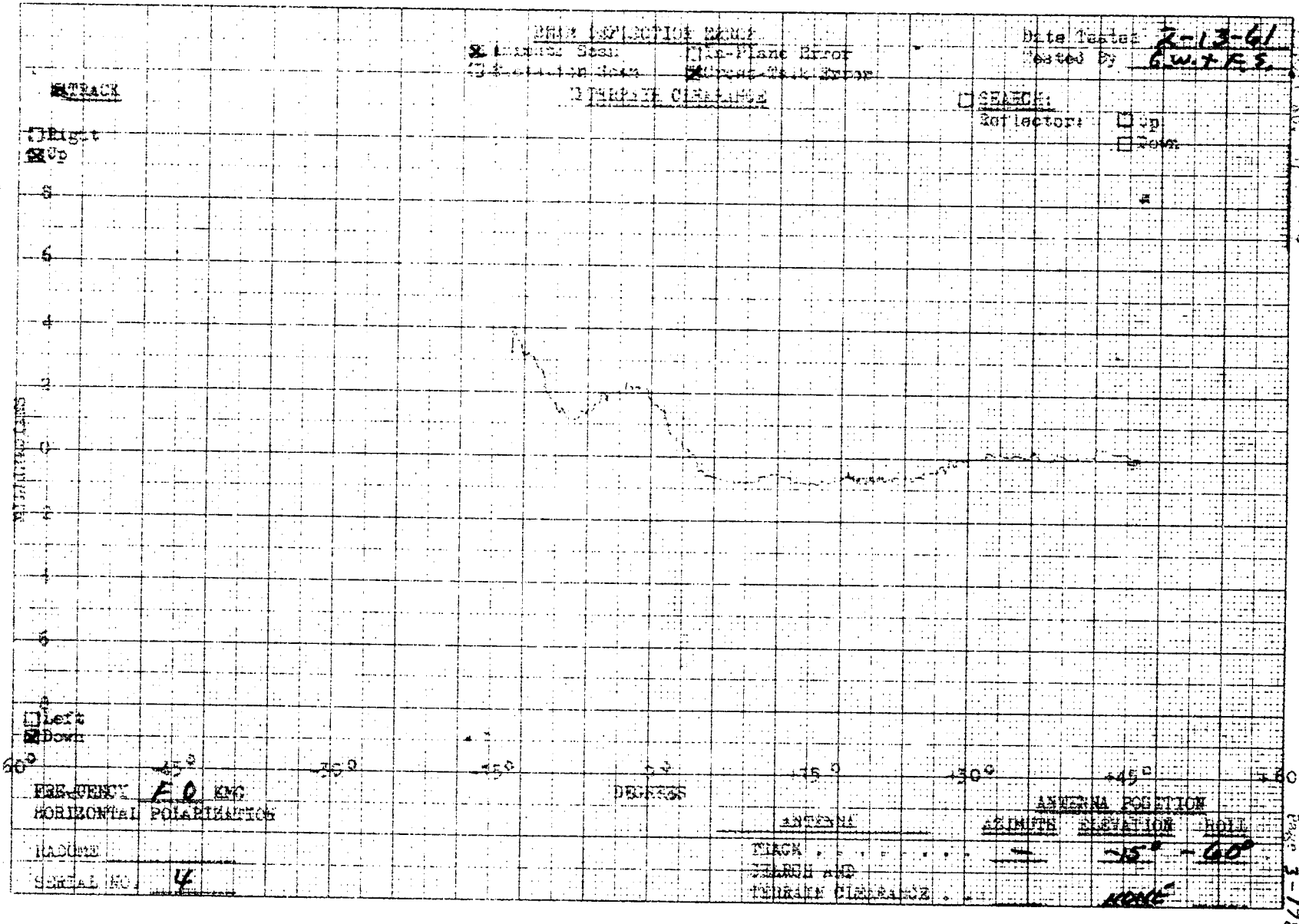


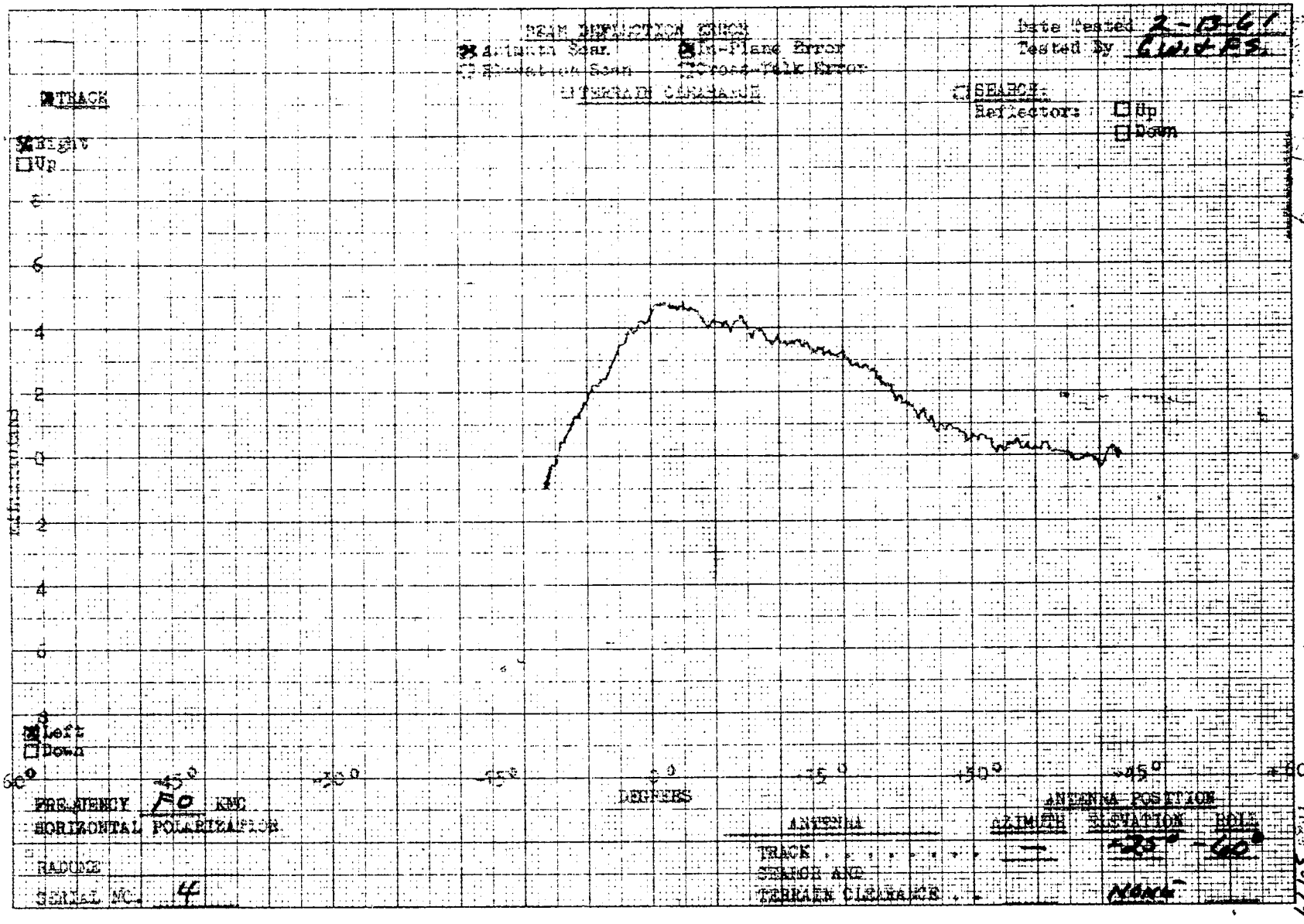
KEUFFEL & ESSER CO. 10 X 10 TO THE INCH 359-11G




BEAM DEFLECTION ERROR
Date Tested 2-13-64
Tested By Curtis
Azimuth Scan
Elevation Scan
Monopulse Error
Cross-Talk Error
TRACK
Right
Up
Left
Down
MILLIAMPERES
8
6
4
2
0
2
4
5
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY F0 MHz
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
-10°
-60°
SEARCH AND
TERRAIN CLEARANCE
NONE
Page 3-126


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Phase Error
Quad-Phase Error
Date Tested 2-13-61
Tested By C.W.C.E.
TRACK
SEARCH
Reflector: Up Down
Right
Up
Left
Down
DEGREES
-60° -45° -30° -15° 0° +15° +30° +45° +60°
FREQUENCY F0 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK -15° -60°
SEARCH AND
INTERFEROMETER KONE


Date Tested: 2-13-61
Tested By: G.W. + F.S.
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
DEGREES
-60°
-45°
-30°
-15°
+15°
+30°
+45°
+60°
FREQUENCY 5690 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
HOLD
TRACK
-15°
-60°
SEARCH AND
TERRAIN CLEARANCE
Page 3-178


BEAM DEFLECTION CURVE
Date Tested 2-13-61
Tested By C.W. & F.S.
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
TRACK
SEARCH
Reflectors: Up Down
Negative
Up
Left
Down
DEFLECTION
DEGREES
-60° -45° -30° -15° 0 +15° +30° +45° +60°
6 4 2 0 2 4 6
FREQUENCY 10 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION HOLD
TRACK -25° -40°
SEARCH ARC
TERRAIN CLEARANCE Accept
Page 3-179

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ X-Plane Error
☐ Elevation Scan ☒ Cone-Talk Meter

☐ TERRAIN CLEARANCE

Date tested 2-13-41
Tested by GW-HES

☐ SEARCH:
Reflector: ☐ Up ☐ Down

☒ TRACK

☐ Right
☒ Up

8
6
4
2
0
2
4
6
8

☐ Left
☒ Down

MILLIAMPERES

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 60 KMC
HORIZONTAL POLARIZATION

RADOME
SERIAL NO. 4

ANTENNA
TORCH
SEARCH AND
TERRAIN CLEARANCE

ANTENNA POSITION
AZIMUTH ELEVATION BORE
-25° -60°
NOSE

Page 3-484

PEAK DEFLECTION ERROR

Date Tested 2-13-61

Tested By CWE

☒ Azimuth Scan ☒ All-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

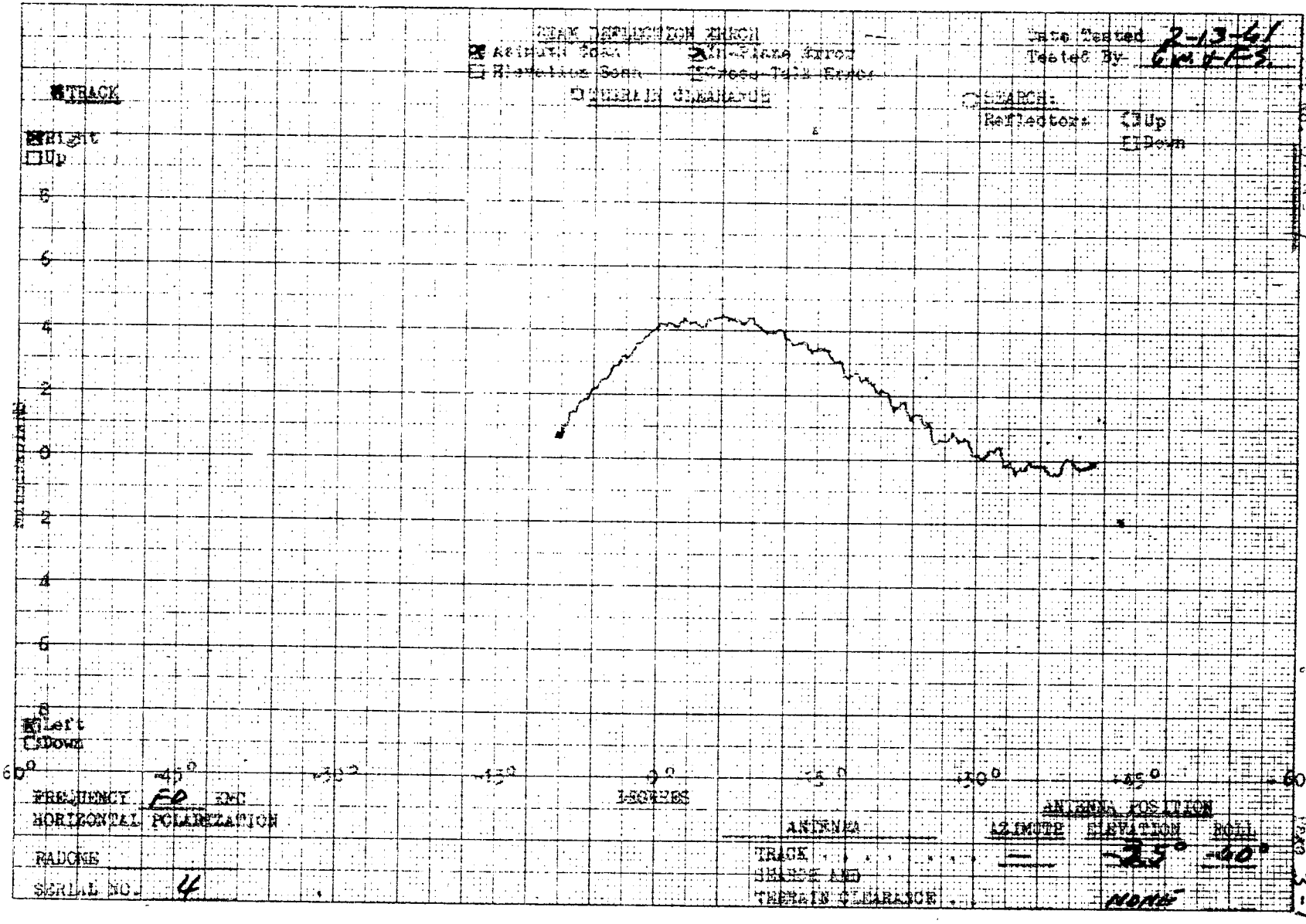
☒ TRACK

☒ Right

☐ Up

SEARCH:

Reflectors: ☐ Up ☐ Down



FREQUENCY 60 MC

HORIZONTAL POLARIZATION

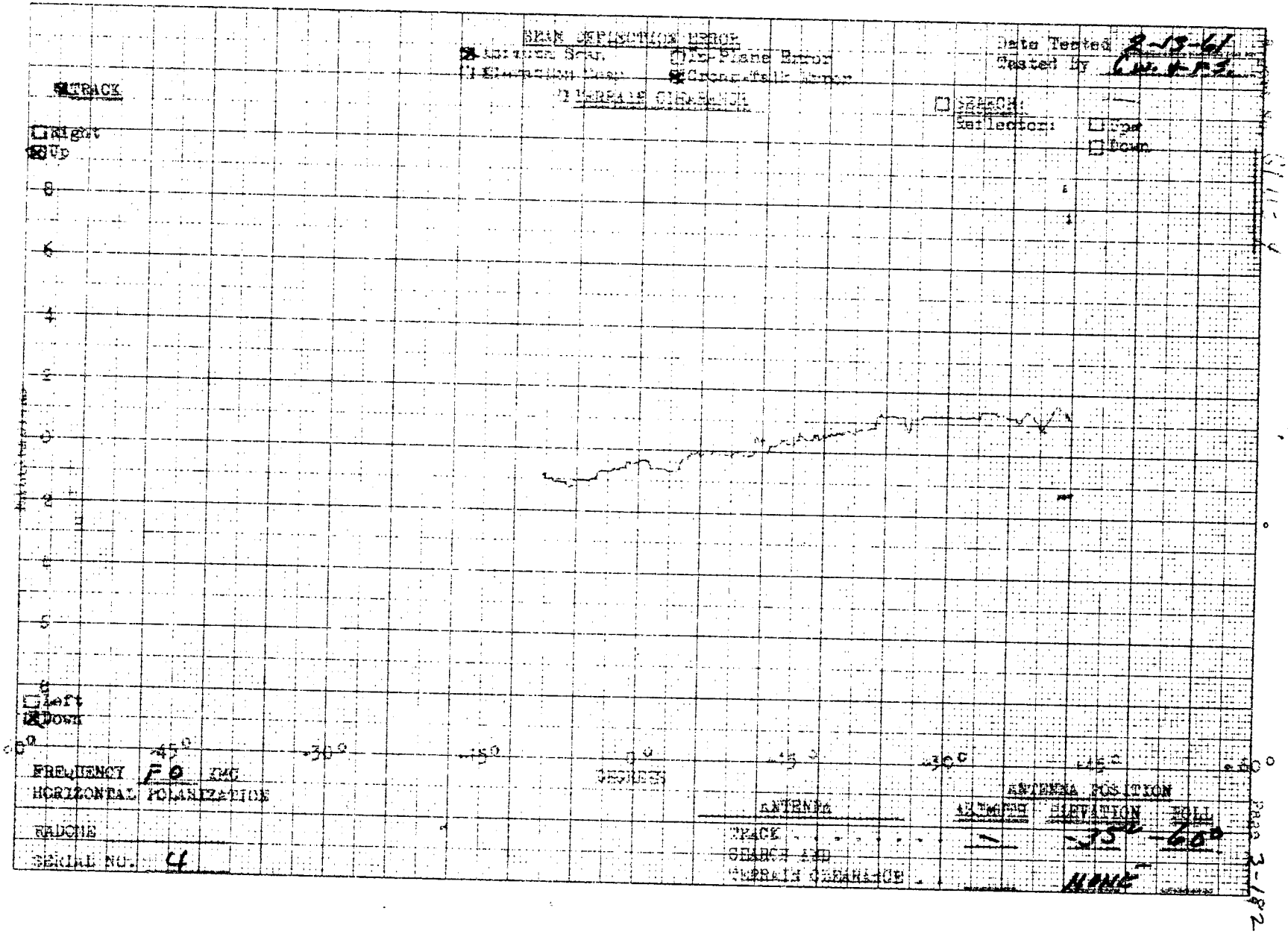
RADOME

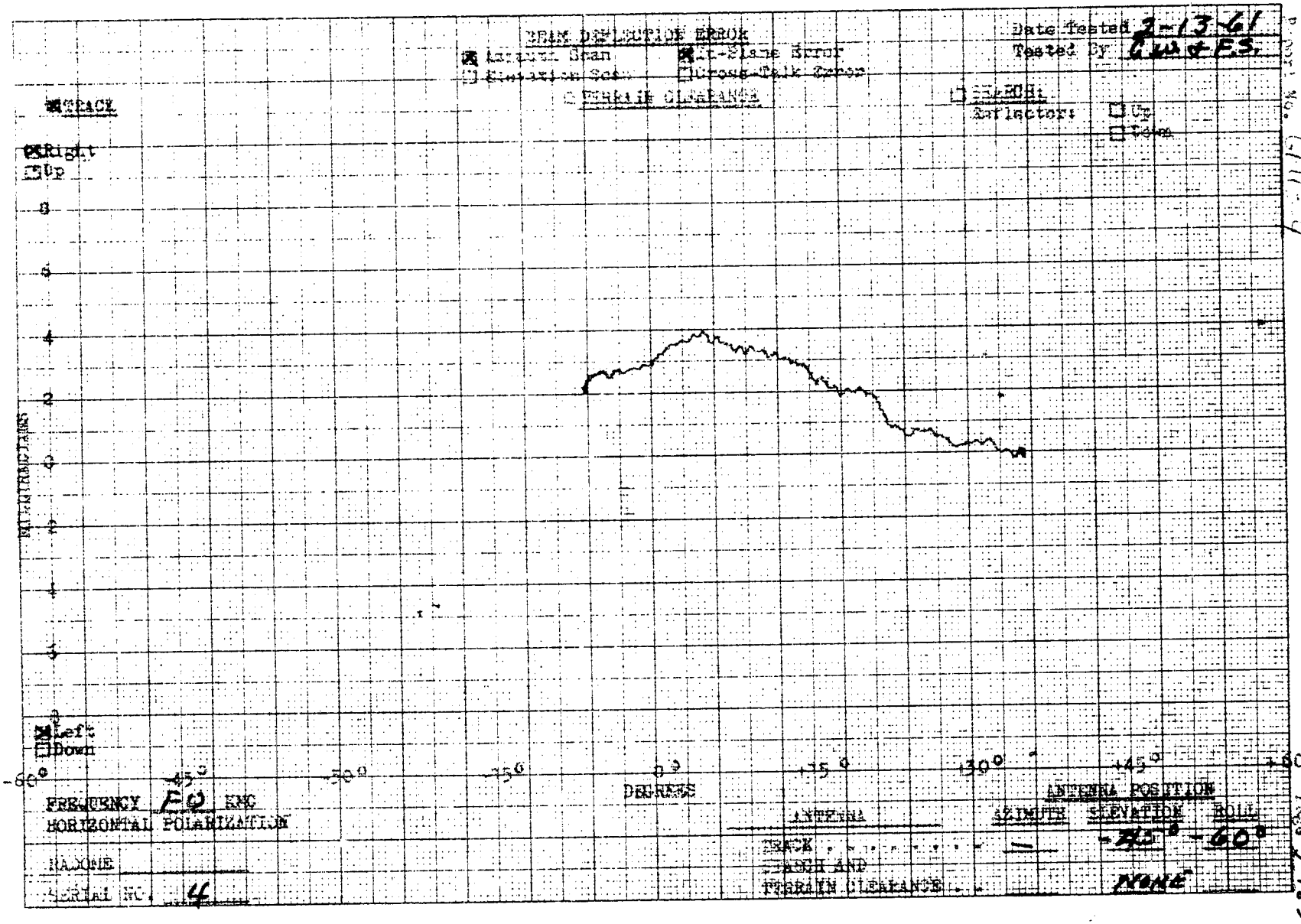
SERIAL NO. 4

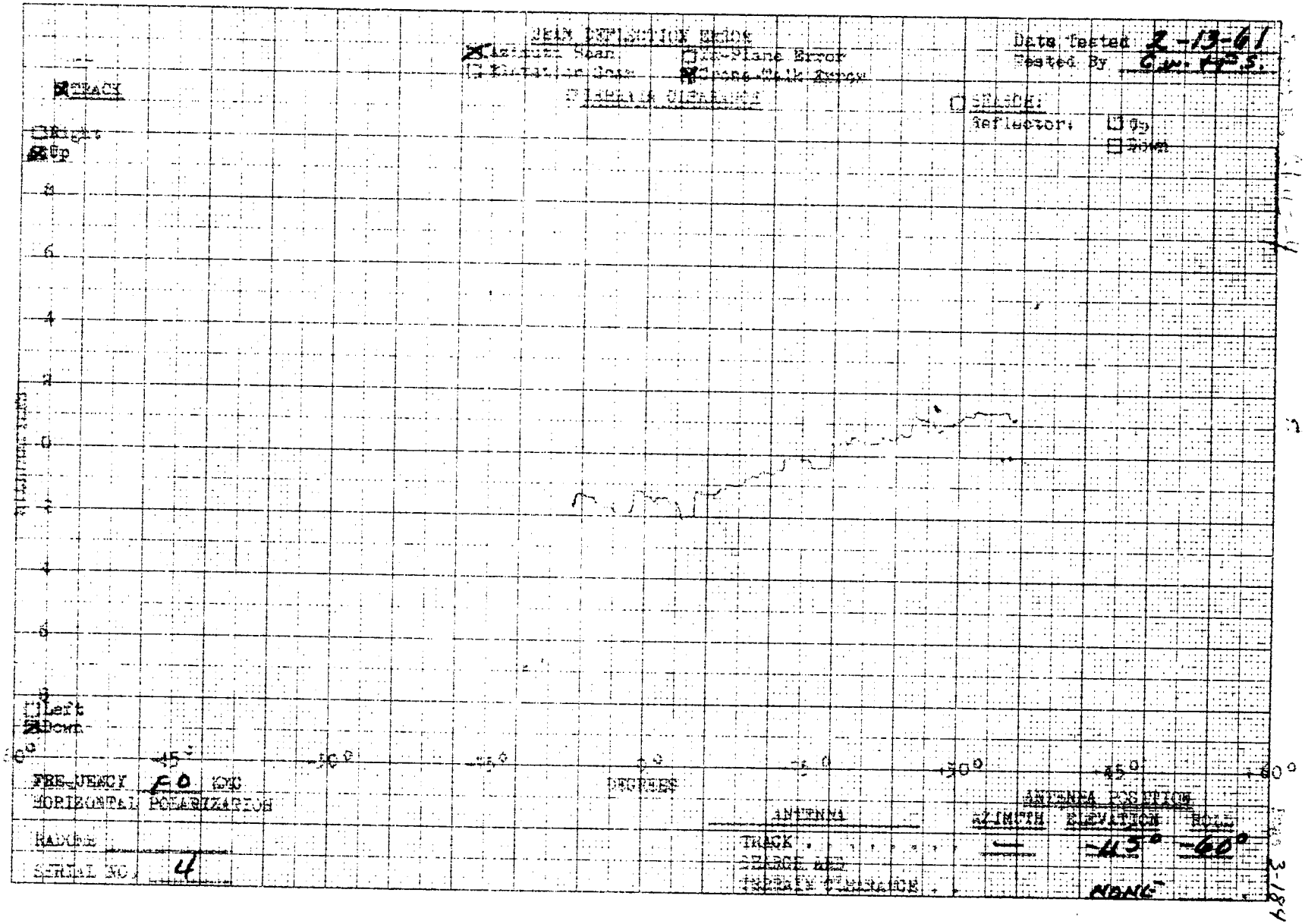
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-25°	-40°
SPARE ANT			
TERRAIN CLEARANCE		none	

PAGE 3-181


BEAM DEFLECTION ERROR
Elevation Scan
Azimuth Scan
Cross-Plane Error
TERRAIN CLEARANCE
Data Tested 8-13-64
Tested by
TRACK
Right
Up
SEARCH
Reflector:
Type
Down
Left
Down
FREQUENCY F0 MC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
1
-35°
-60°
NONE
3-182

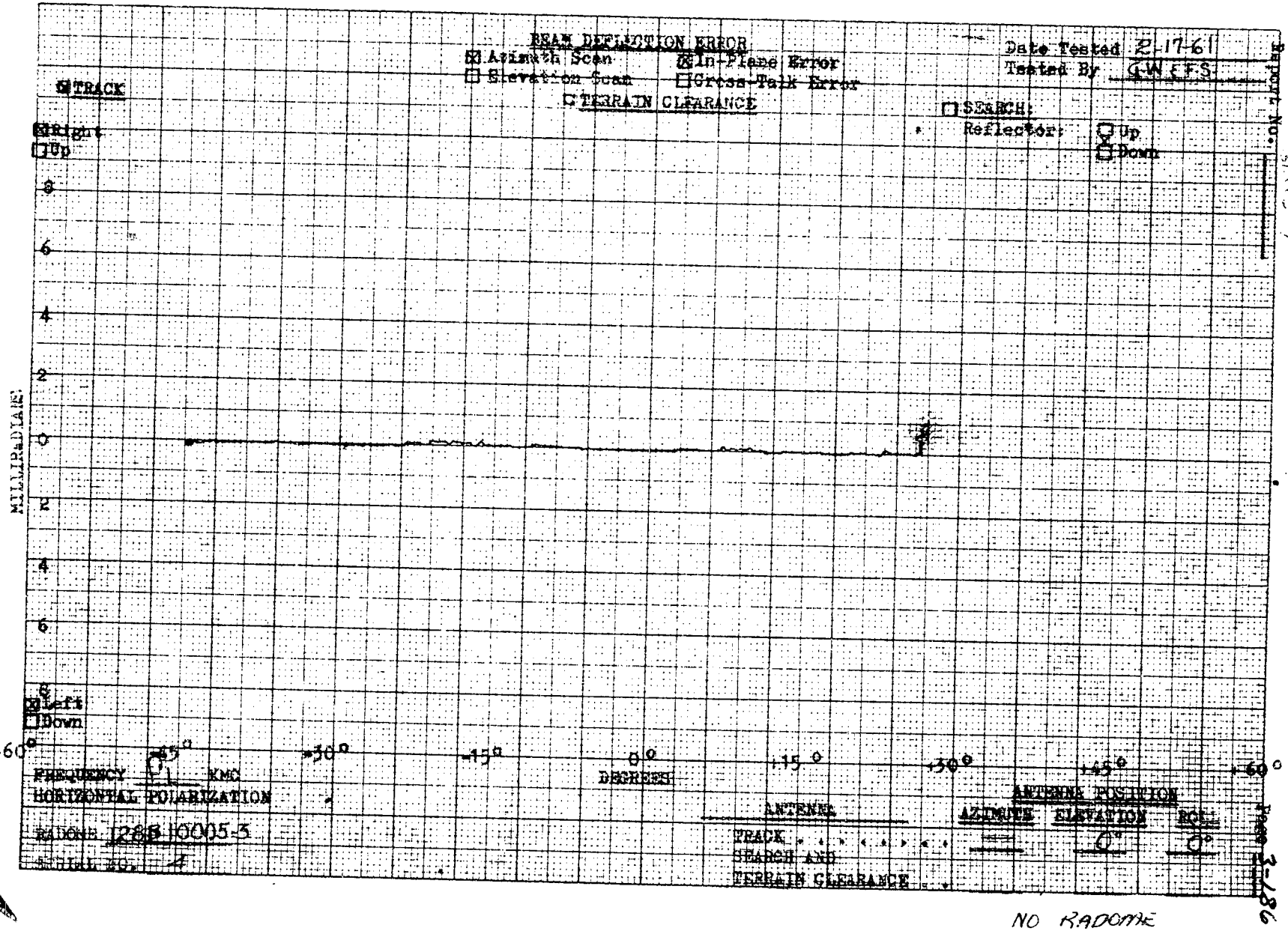

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Set
Terrain Clearance
Az-Plane Error
Cross-Talk Error
Date Tested 2-13-61
Tested By GAM & ES
TRACK
Right
Up
Left
Down
DEGREES
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY E-Q EMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-45° -60°
ANTENNA
TRACK
BEAM AND
TERRAIN CLEARANCE
NONE
Page 3-183


Data Tested 2-13-61
Tested By C.W. H.S.
TRACK
Right
Up
Left
Down
SELSYN:
Reflector:
Up
Down
FREQUENCY 60 KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO. 4
ANTENNA
TRACK
SPACE ATT
TERRAIN ELIMINATION
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-45° -60°
NONE
3-184

SECTION 37

TRACK BORESIGHT ERROR

F_L @ 0° ROLL


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GWEFS
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
Report No.
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6.1 KMC
HORIZONTAL POLARIZATION
RADOME 1268-10005-5
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
0°
Page 3-186
NO RADOME

K&E 10 X 10 TO THE INCH 359-116
KEUFFEL & ESSER CO.

BEAM REFLECTION ERROR
☐ Azimuth Scan ☐ In-Plane Error
☐ Elevation Scan ☒ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-17-61
Tested By G-WEFS

☐ TRACK
☐ Right
☒ Up

☐ SEARCH
Reflectors: ☐ Up ☐ Down

AMPLITUDE (dB)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40

☐ Left
☒ Down

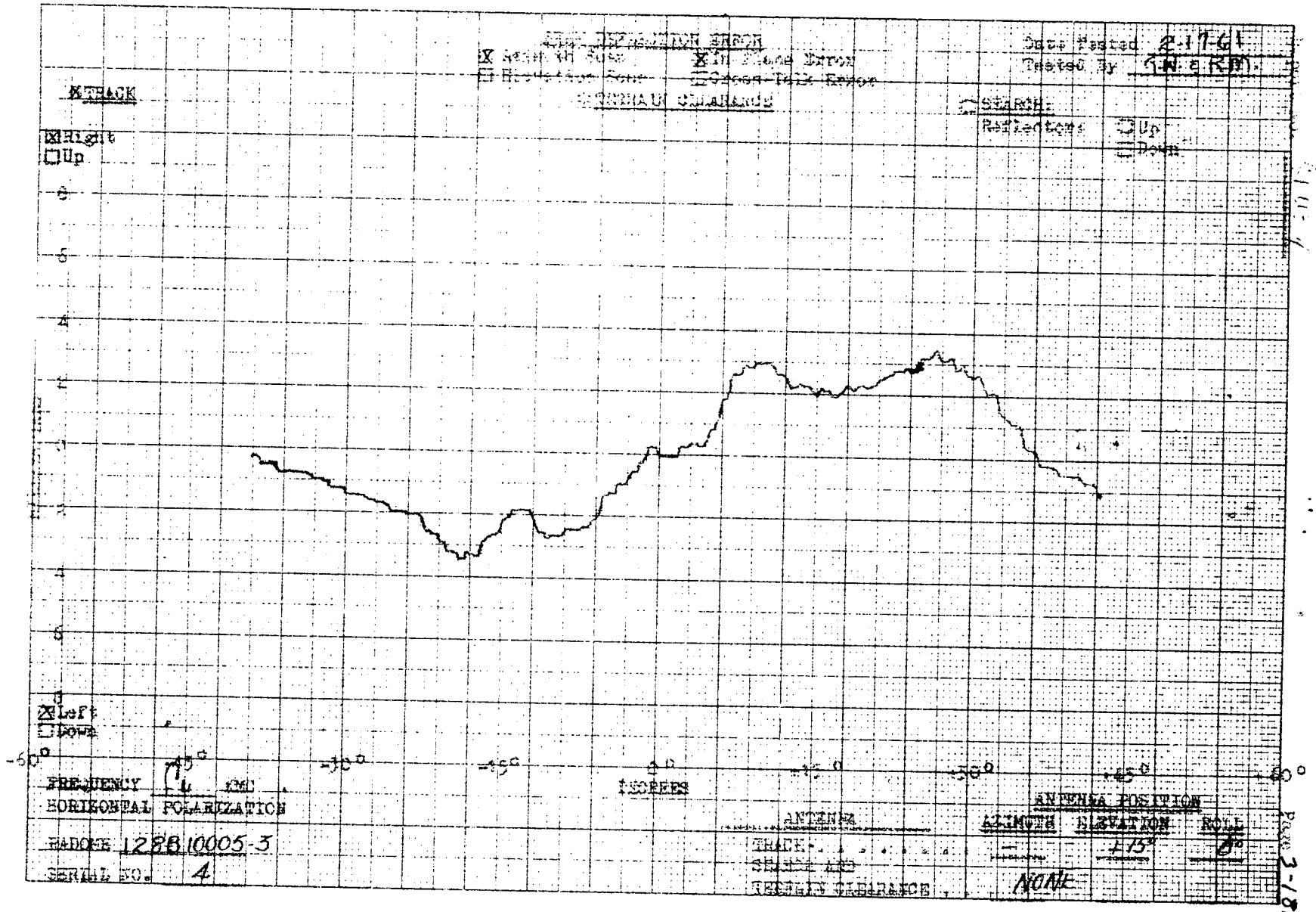
-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES

FREQUENCY 1.1 KMC
HORIZONTAL POLARIZATION

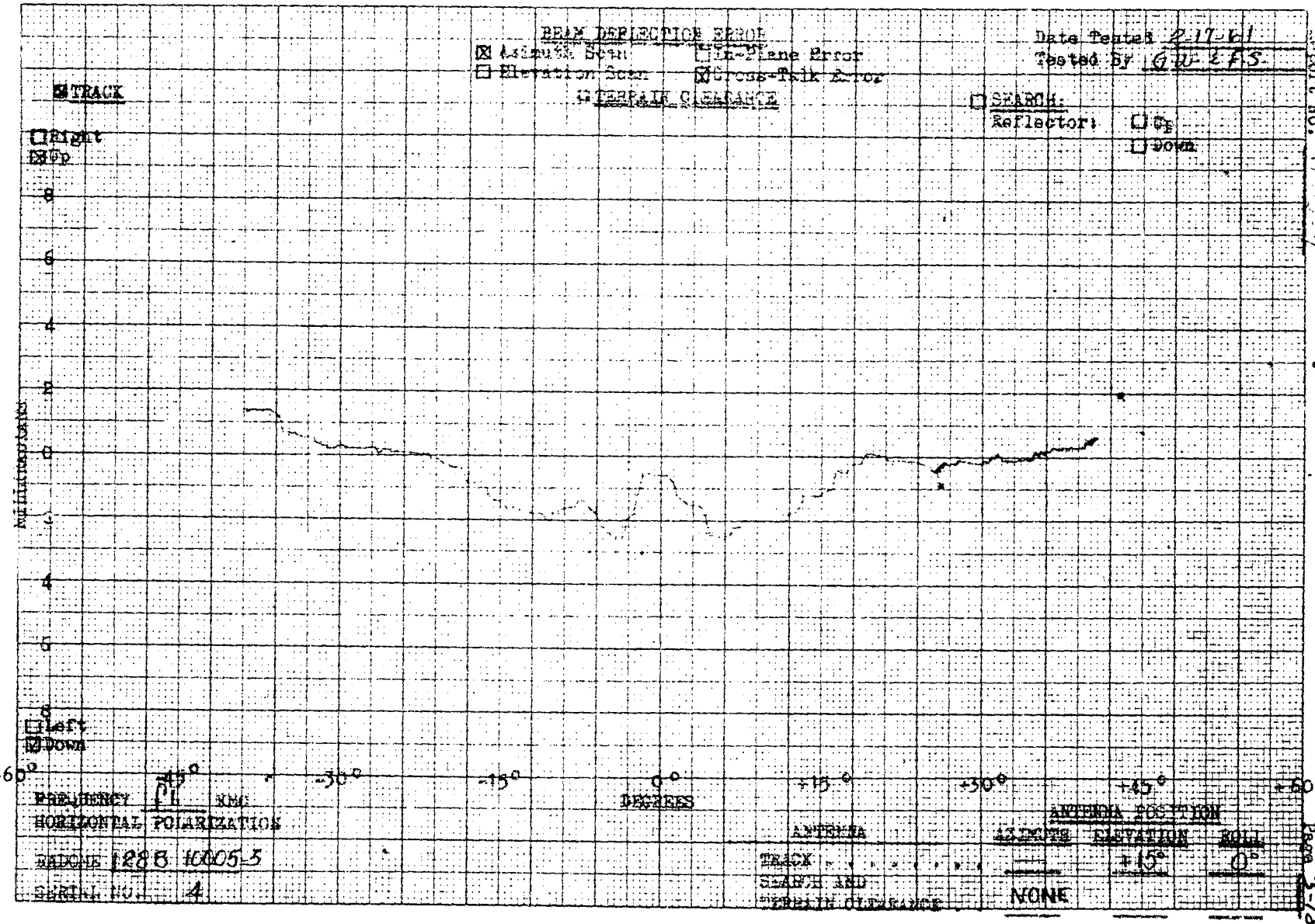
RADOME 126-0005-3
BEAM-LL NO. 4

ANTENNA POSITION
ANTENNA | AZIMUTH | ELEVATION | ROLL
TRACK | | 0° | 0°
SEARCH AND TERRAIN CLEARANCE | | |

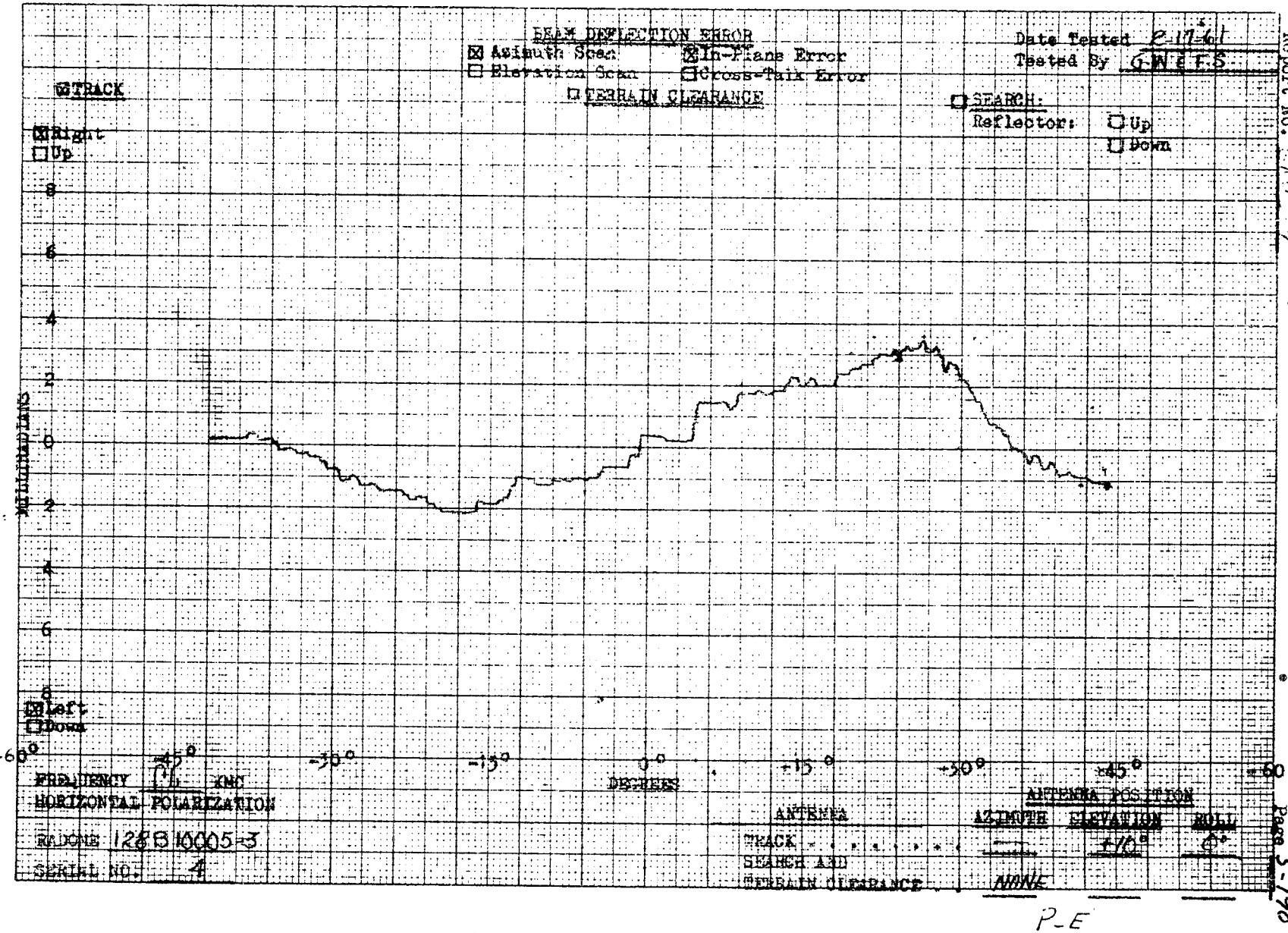
NO RADOME


Date Tested 2-17-61
Tested By C.N.E.R.M.
TRACK
Right
Up
SEARCH
Reflections
Up
Down
Left
Down
FREQUENCY 4 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
±15°
0°
NONE
Page 3-108

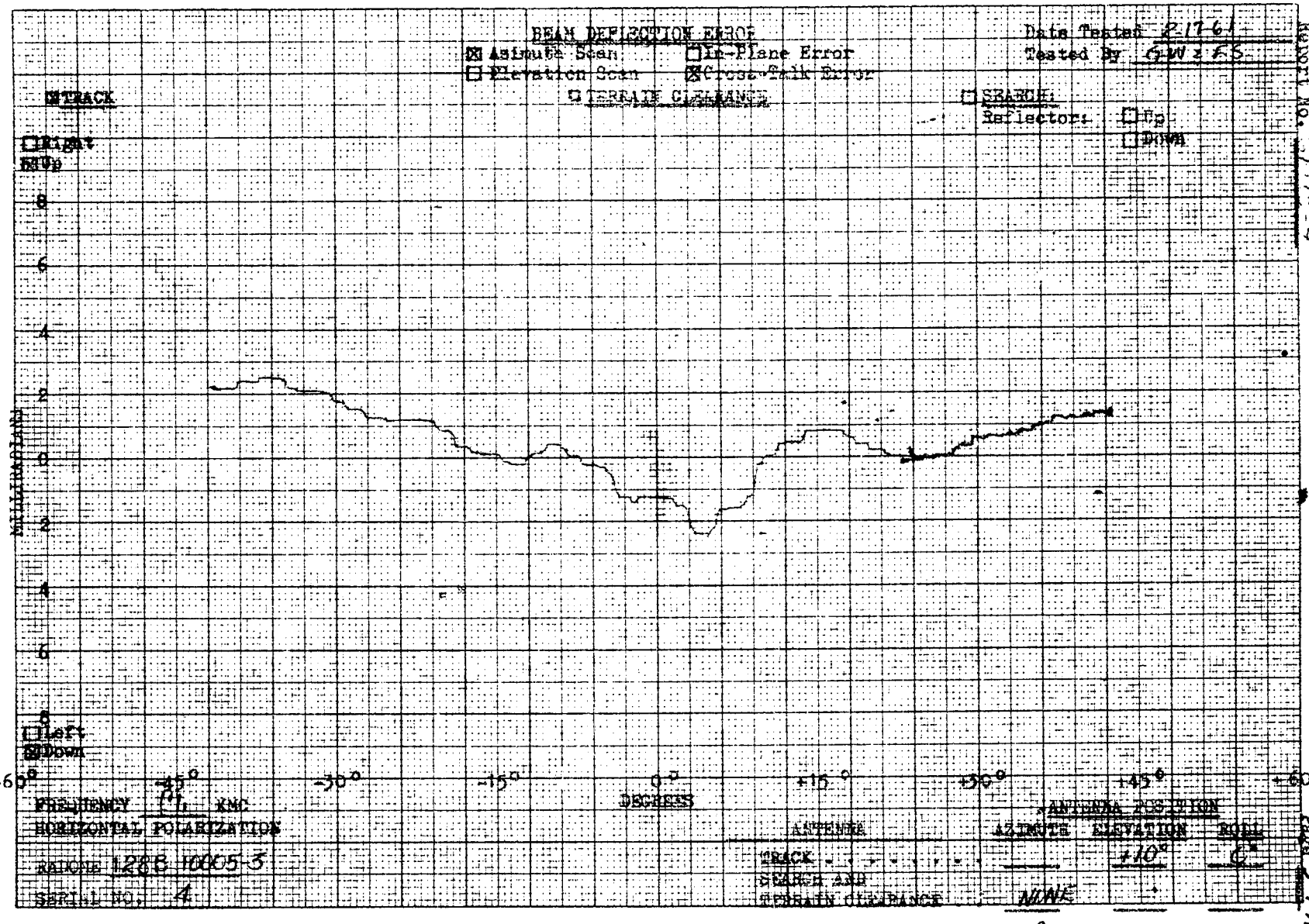
P-E

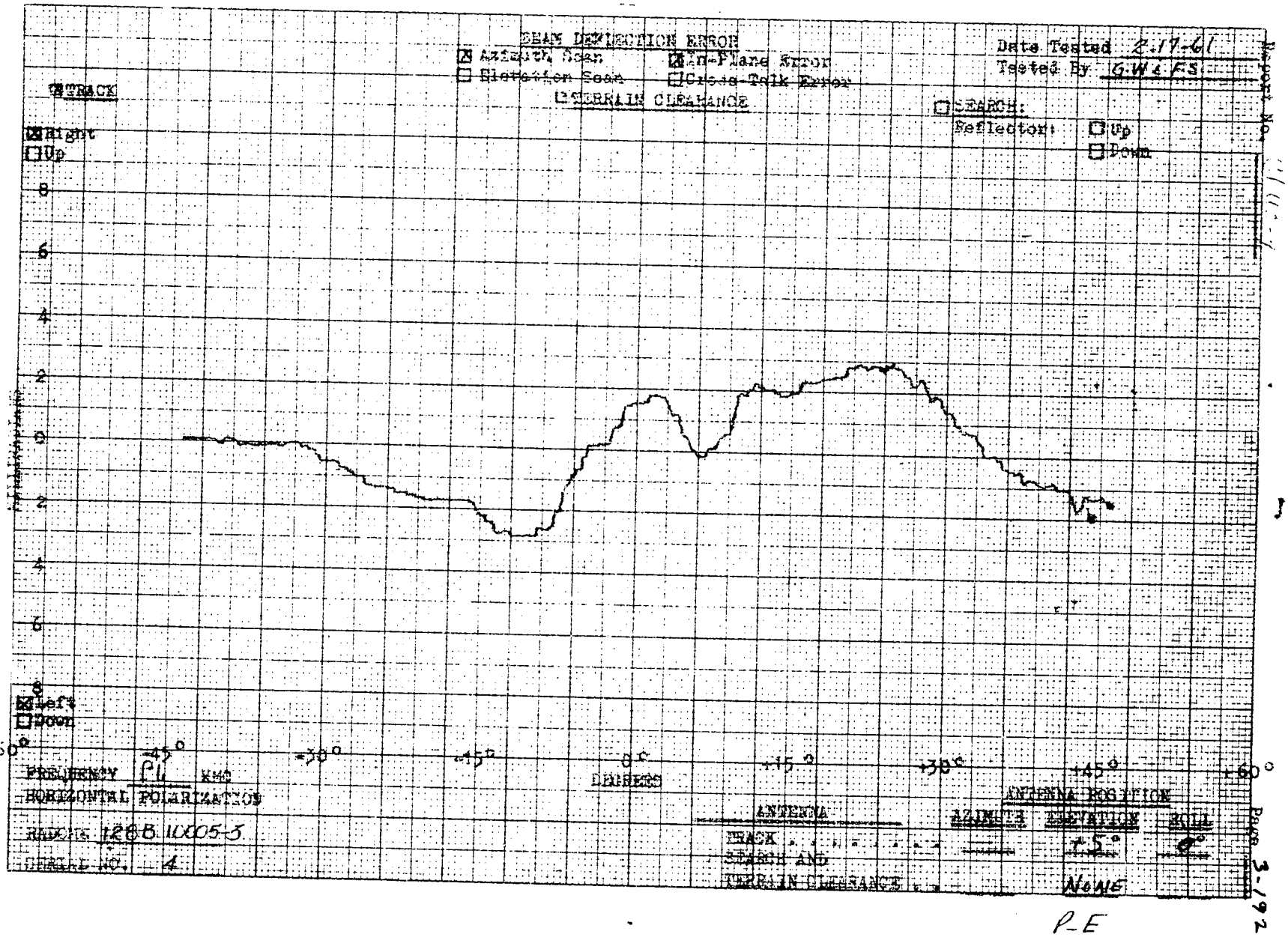

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GW-EFS
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
Report No. 1112-1
Page 3-189
milliamperes
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-5
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
0°
+15°
0°
SEARCH AND
TERRAIN CLEARANCE
NONE
P-E

K&E 10 X 10 TO THE ½ INCH 359-110

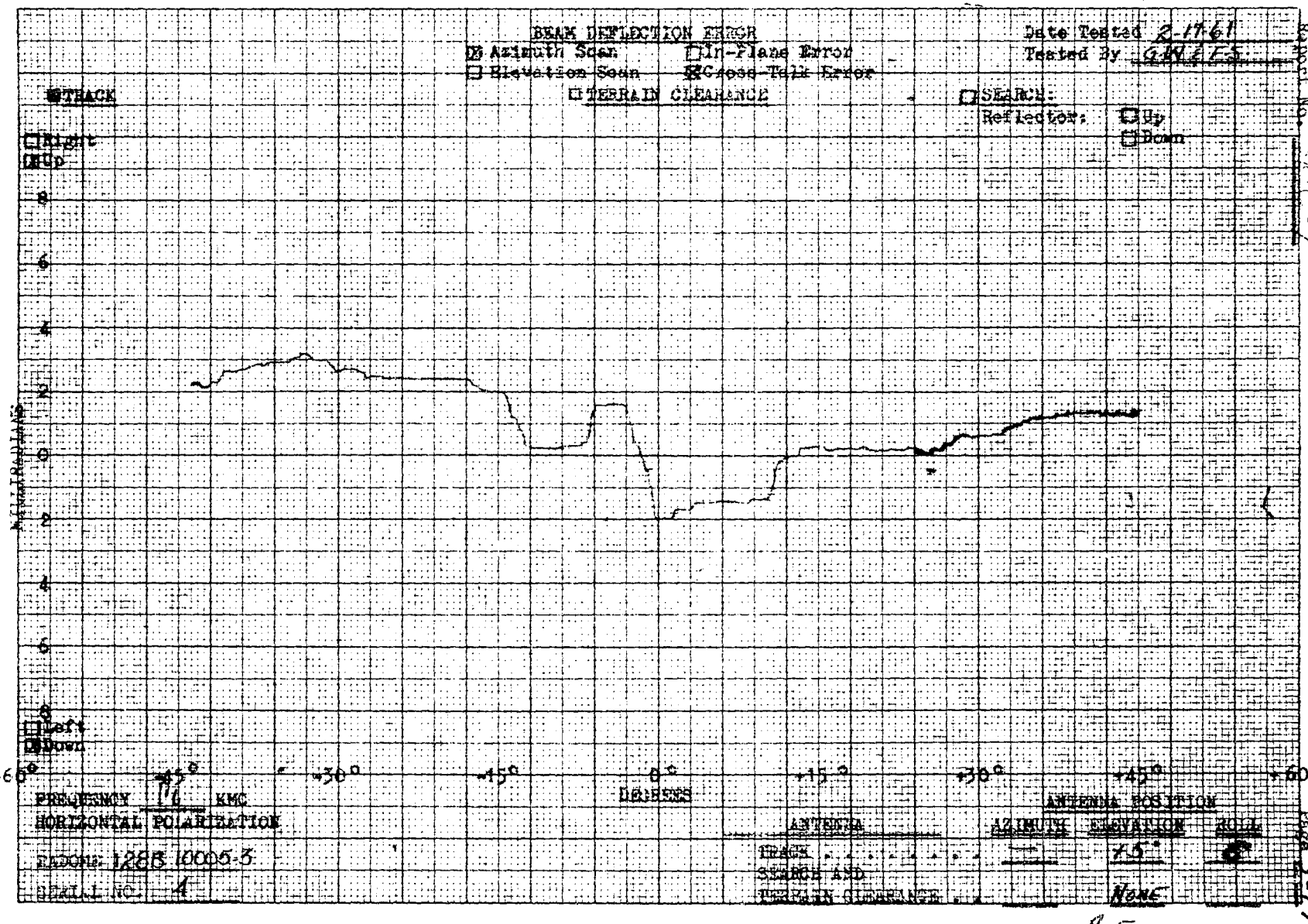


K&E 10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.




BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W. & F.S.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
DRAWING NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION BOW
+5° 0°
TRACK
SEARCH AND
TERRAIN CLEARANCE
None
Report No.
Page 3-192
P-E

10 X 10 TO THE INCH 359-110
KEUFFEL & ESSER CO



K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W.F.S.

Report No. (illegible)

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ TRACK

☒ Right

☐ Up

☐ SEARCH-Reflector: ☐ Up ☐ Down

8

6

4

2

0

2

4

6

8

Milliradians

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5.4 KMC

HORIZONTAL POLARIZATION

RADOME 285 10005-3

SERIAL NO. 4

ANTENNA TRACK SEARCH AND TERRAIN CLEARANCE

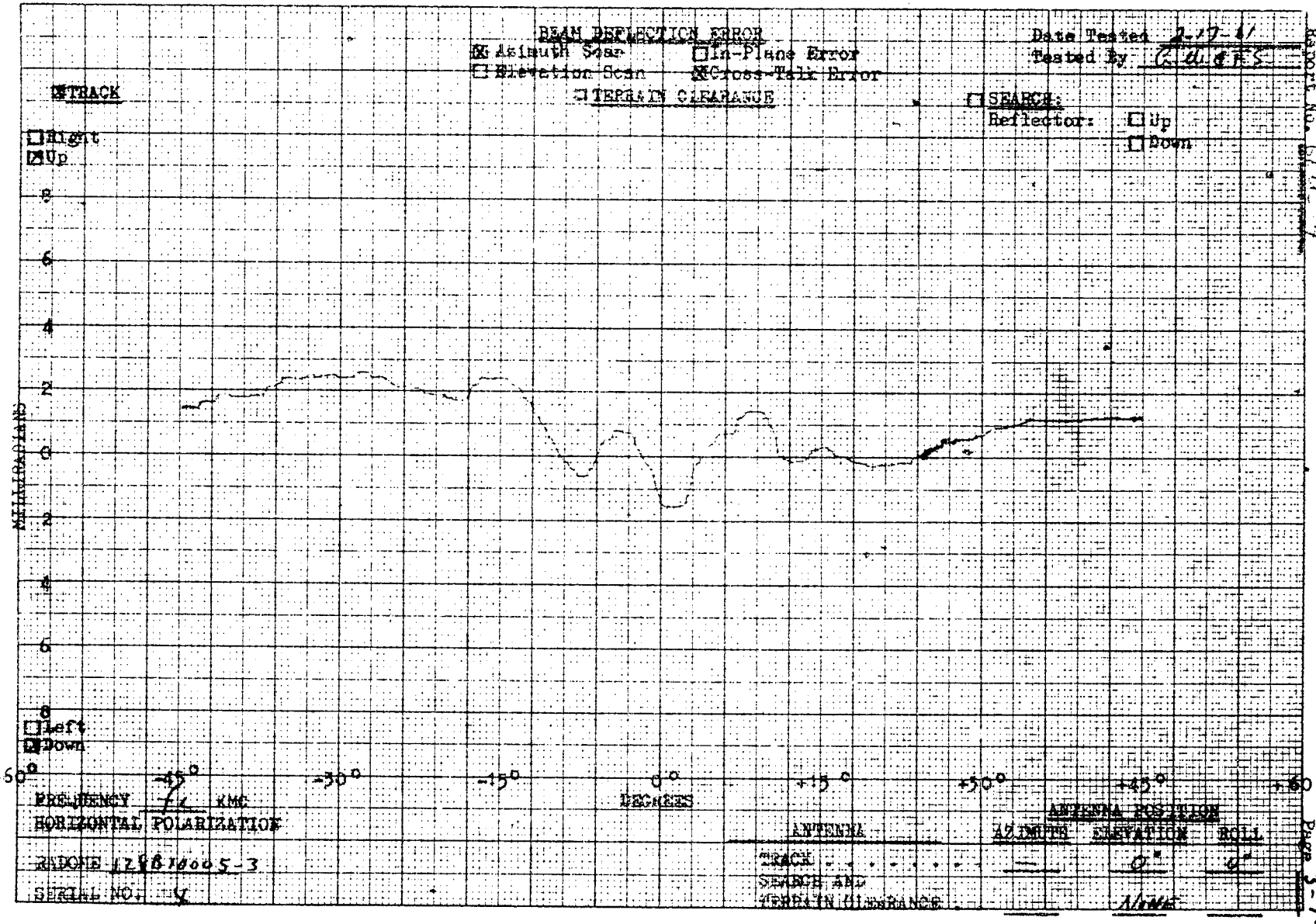
ANTENNA POSITION AZIMUTH 42 DEGREE ELEVATION 0° ROLL 0°

None

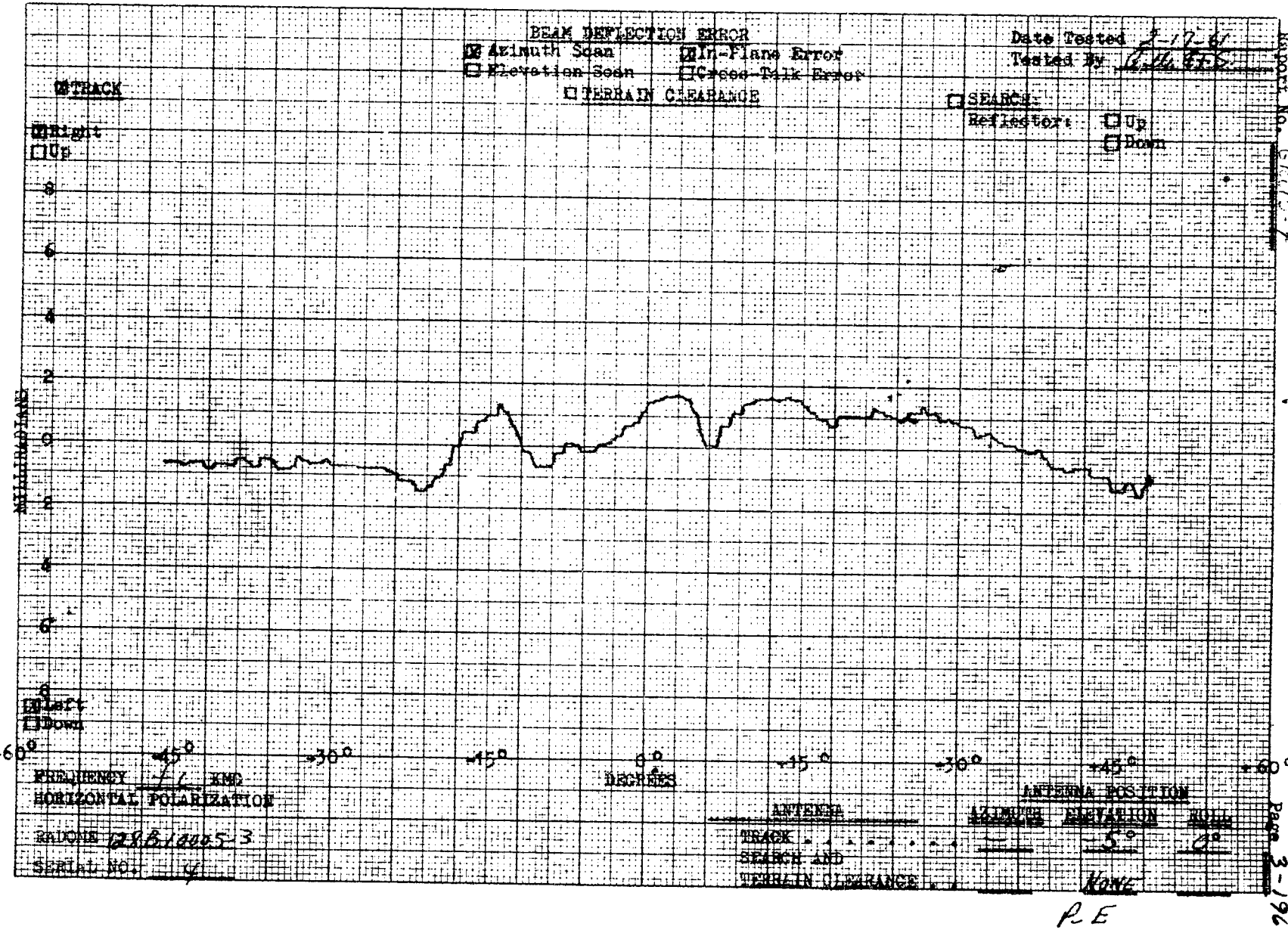
P.E.

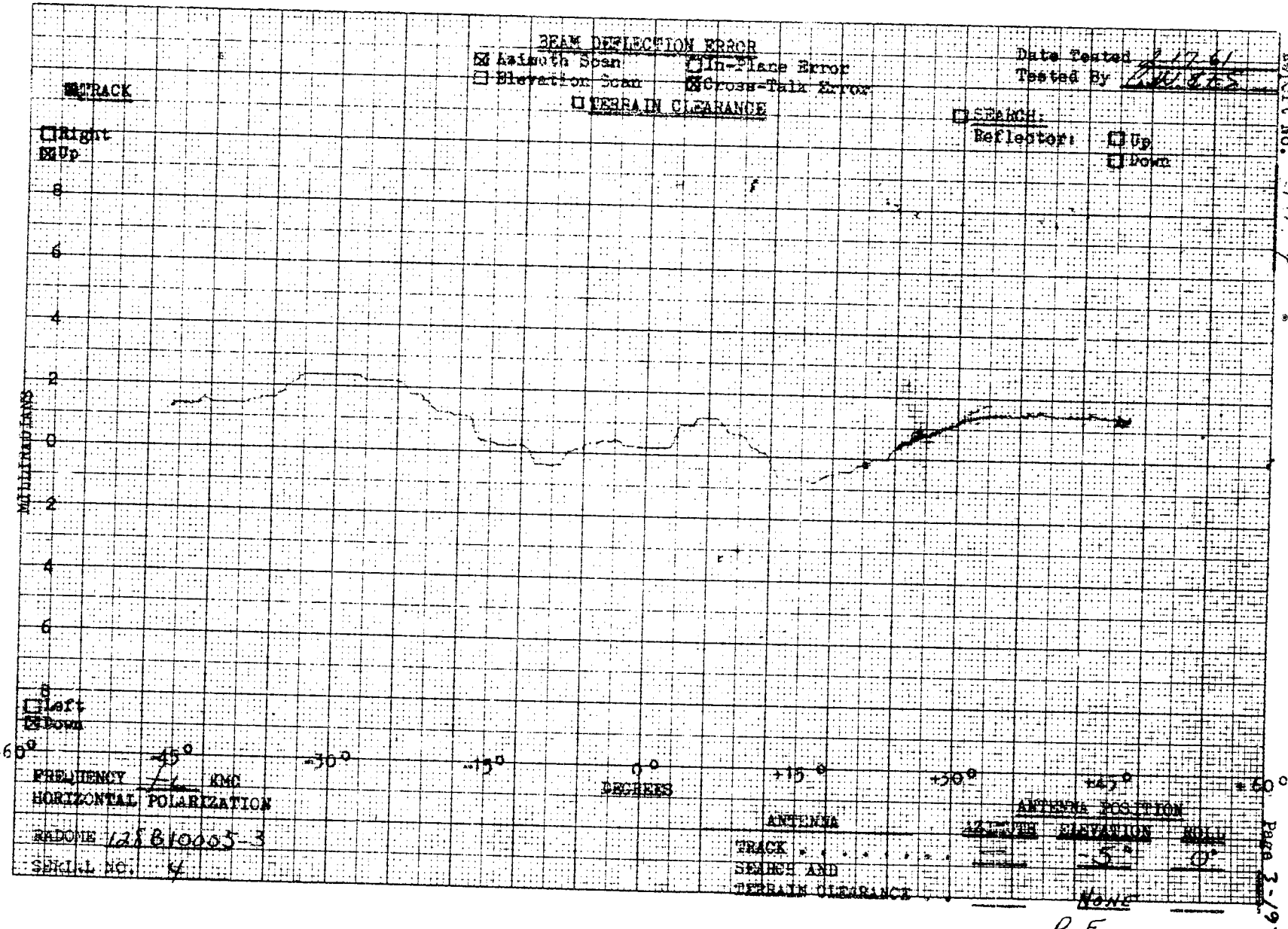
Page 3 of 4

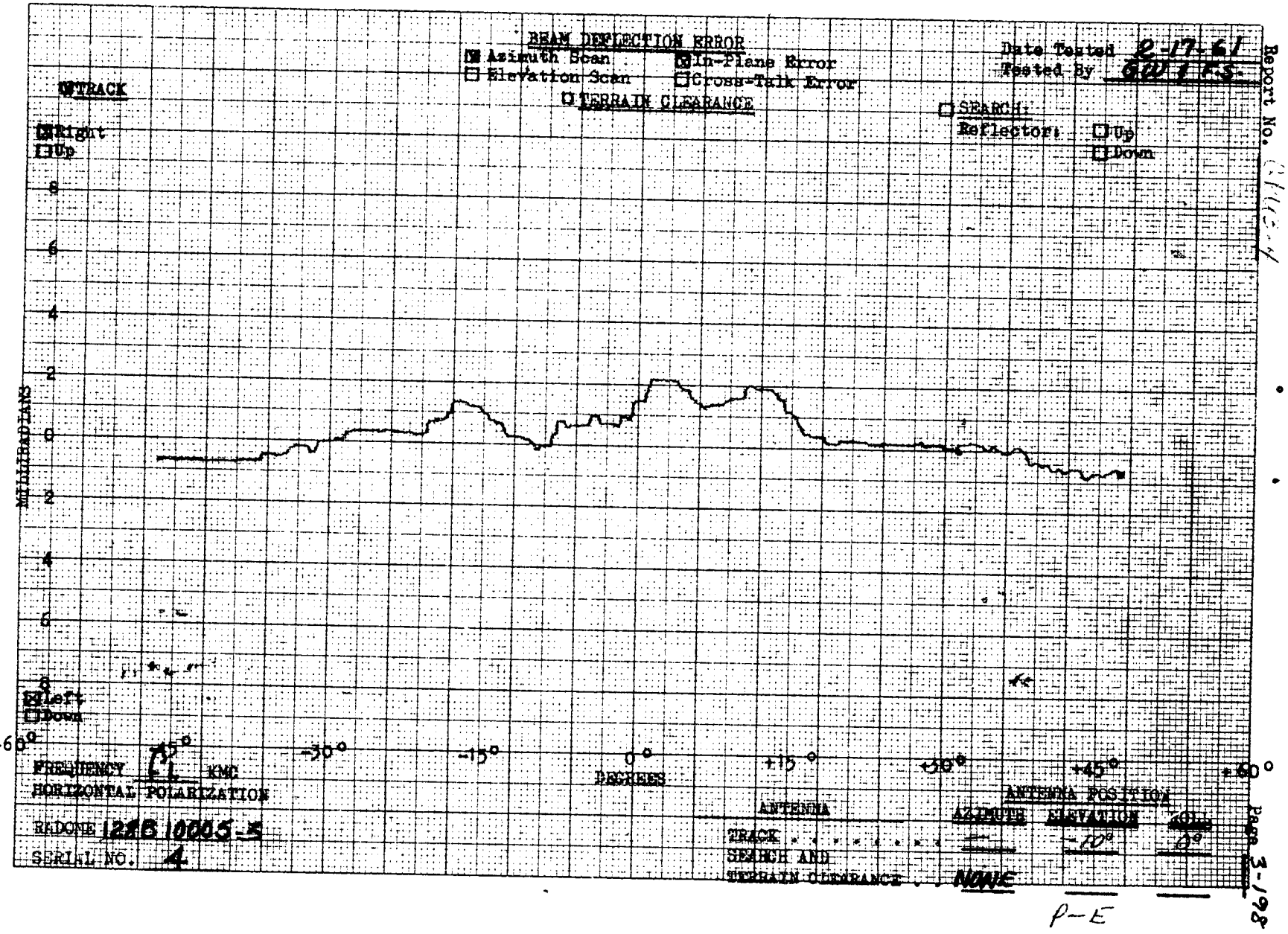
10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.



K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.




BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested
Tested By
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 4 KMC
HORIZONTAL POLARIZATION
RADOME 1281B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-5° 0°
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
None
P.E
Page 2-97


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GDEES
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 4.4 KMC
HORIZONTAL POLARIZATION
RADOME 1218 10005-5
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-20°
0°
P-E
Report No. 1218-1
Page 3-198

K&E 10 X 10 TO THE INCH 359 11G

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By GWEES

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down

MILLIRADIANS

8 6 4 2 0 2 4 6 8

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 4.2 KMC

HORIZONTAL POLARIZATION

RADOME 1288100005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	-12°	0°
SEARCH AND TERRAIN CLEARANCE	NONE		

P-E

Report No.

Page 3-99

10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.

BEAM DEFLECTION ERROR
☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 3-17-61
Tested by E.S.E.M.

Report No. 5111-4

☒ TRACK
☒ Right
☐ Up

☐ SEARCH:
Reflectors: ☐ Up
☐ Down

MILLIRADIANS
8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES

FREQUENCY 11 KMC
HORIZONTAL POLARIZATION

ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE NONE

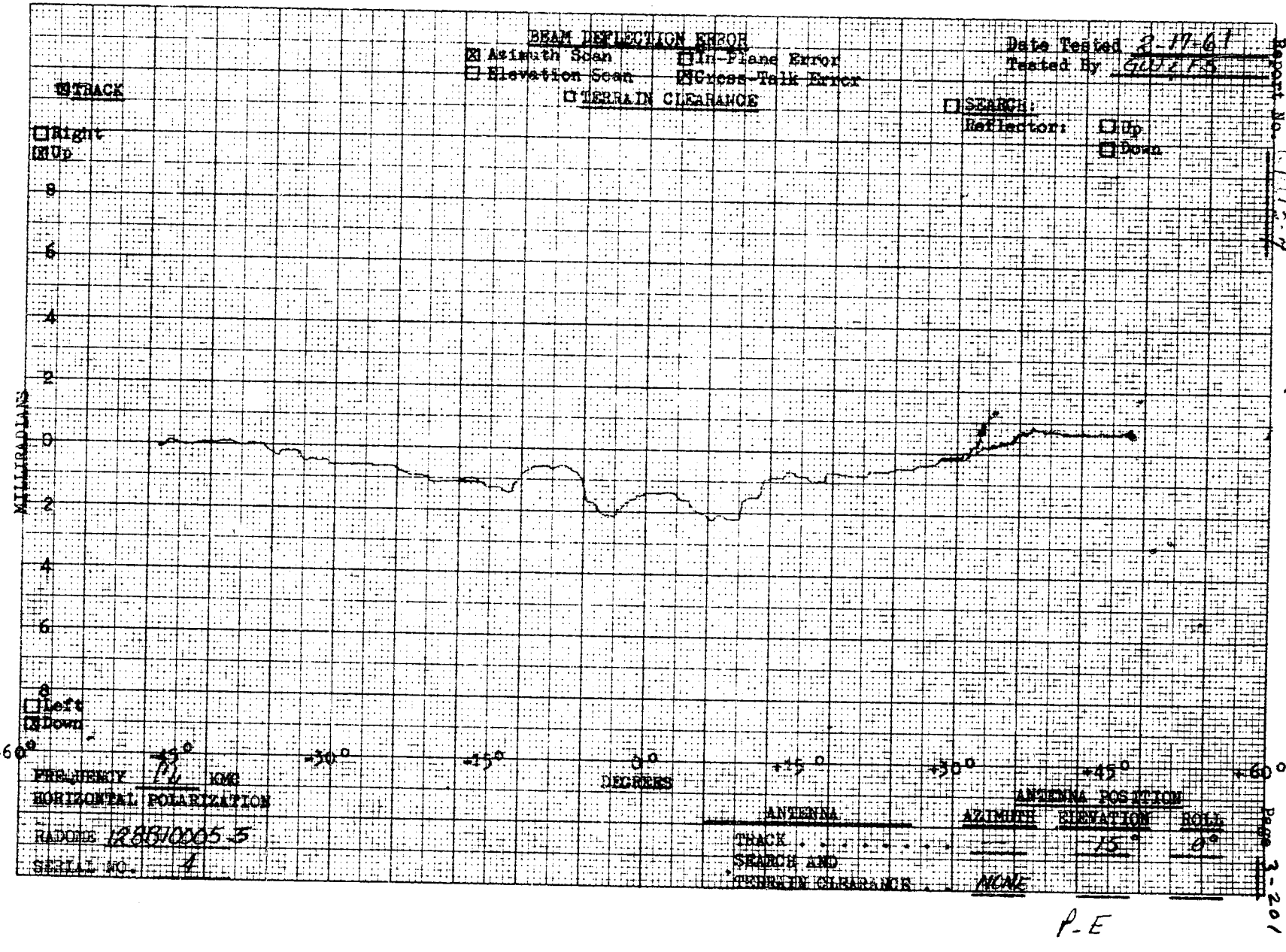
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
— -25° 0°

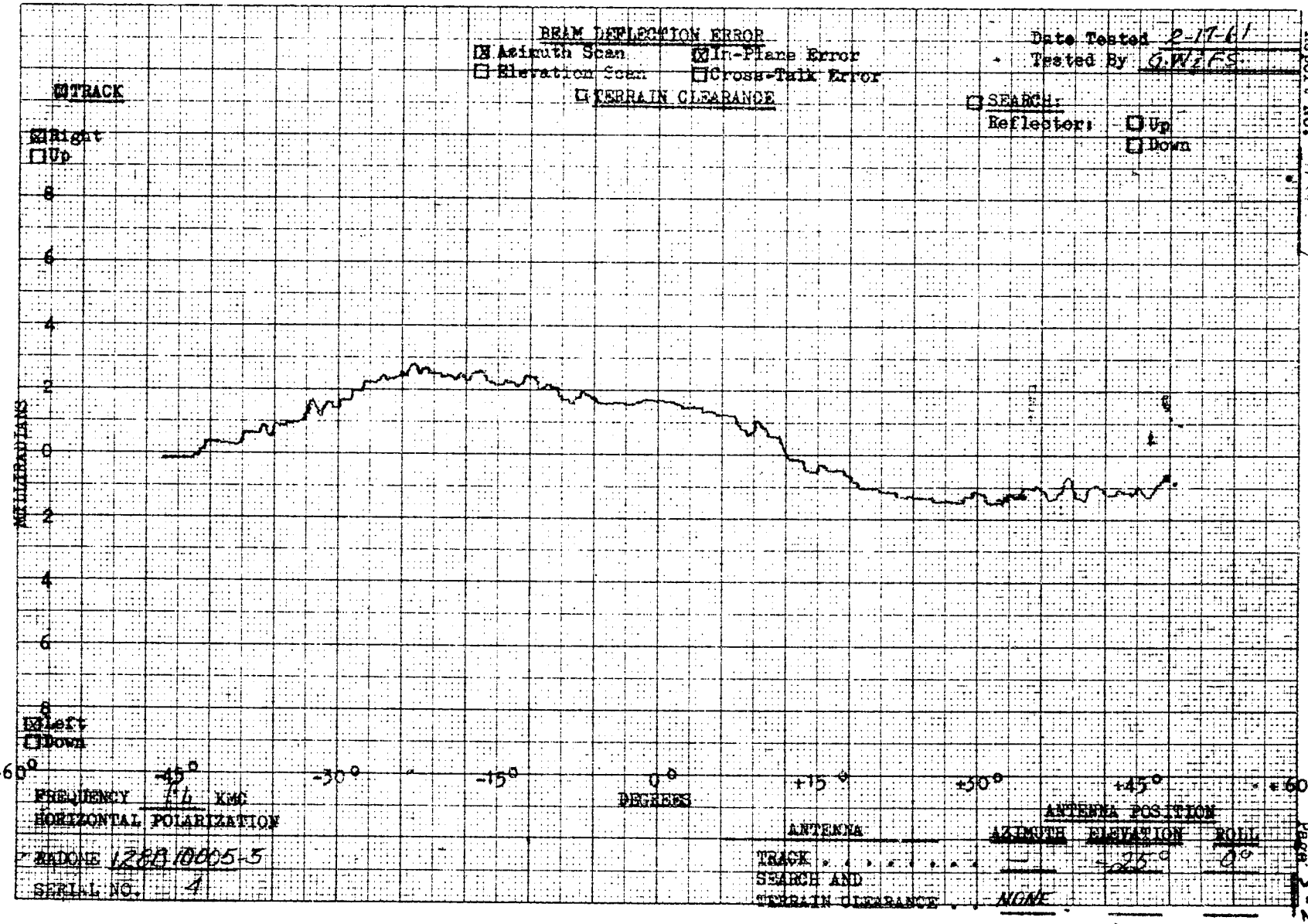
RECORD 1266 0005-5
SERIAL NO. 4

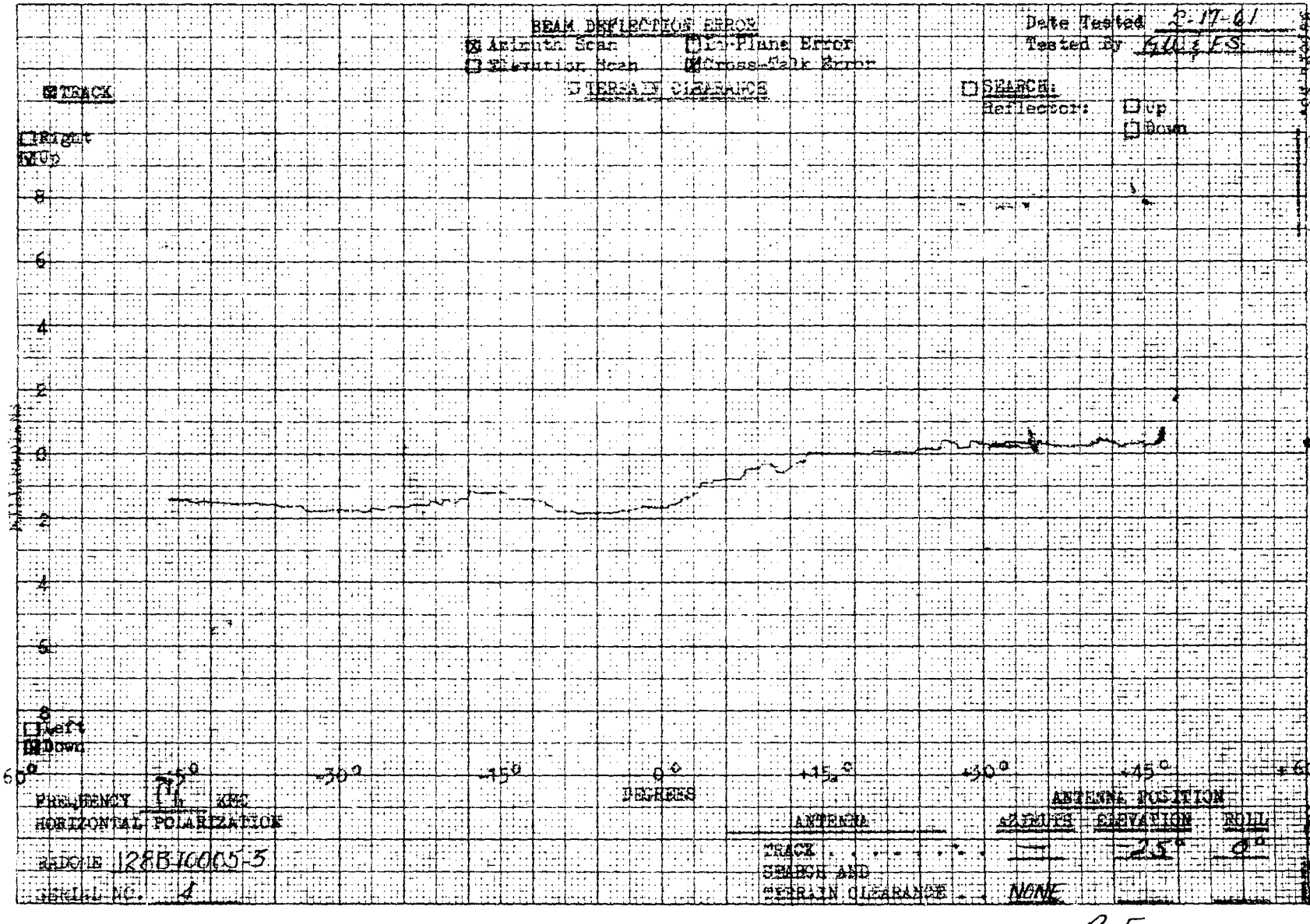
P-E

Page 3-200

K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.




BEAM DEFLECTION ERROR
☒ Azimuth Scan
☐ Elevation Scan
☒ In-Plane Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W.F.S.
☐ SEARCH
Reflector: ☐ Up ☐ Down
Report No. 1111
☒ TRACK
☒ Right
☐ Up
☒ Left
☐ Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 14 KMC
HORIZONTAL POLARIZATION
RADOME 128-10005-5
SERIAL NO. 4
ANTENNA POSITION
ANTENNA AZIMUTH ELEVATION ROLL
TRACK — -25° 0°
SEARCH AND TERRAIN CLEARANCE NONE
Page 3-202


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GUZES
TRACK
SEARCH:
Reflector: up
down
Right
Up
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 1
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK -25° 0°
SEARCH AND TERRAIN CLEARANCE NONE
PE
3-203

K-E 10 X 10 TO THE INCH 353-11G

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 8-17-61

Tested By GW, RS.

Report No. [illegible]

☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down

9

6

4

2

0

2

4

6

8

MILLIRADIANS

☒ Left

☐ Down

-60° -45° -30° -15° 0 +15° +20° +45° +60°

DEGREES

FREQUENCY 4L KMC

HORIZONTAL POLARIZATION

RADOME 2286005-5

SERIAL NO. 4

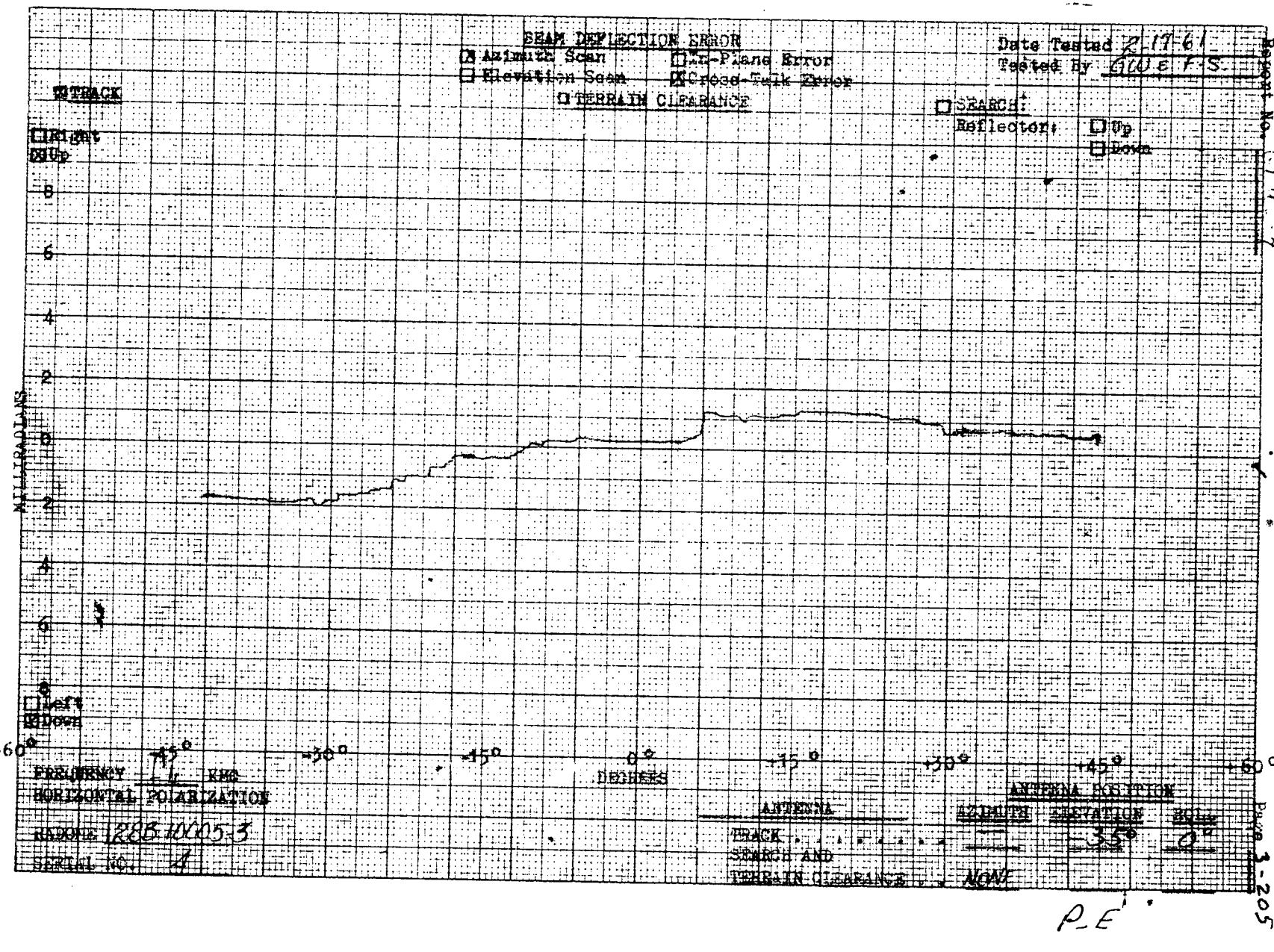
ANTENNA POSITION

	AZIMUTH	ELEVATION	ROLL
TRACK	—	-35°	0°
SEARCH AND TERRAIN CLEARANCE	MOVE		

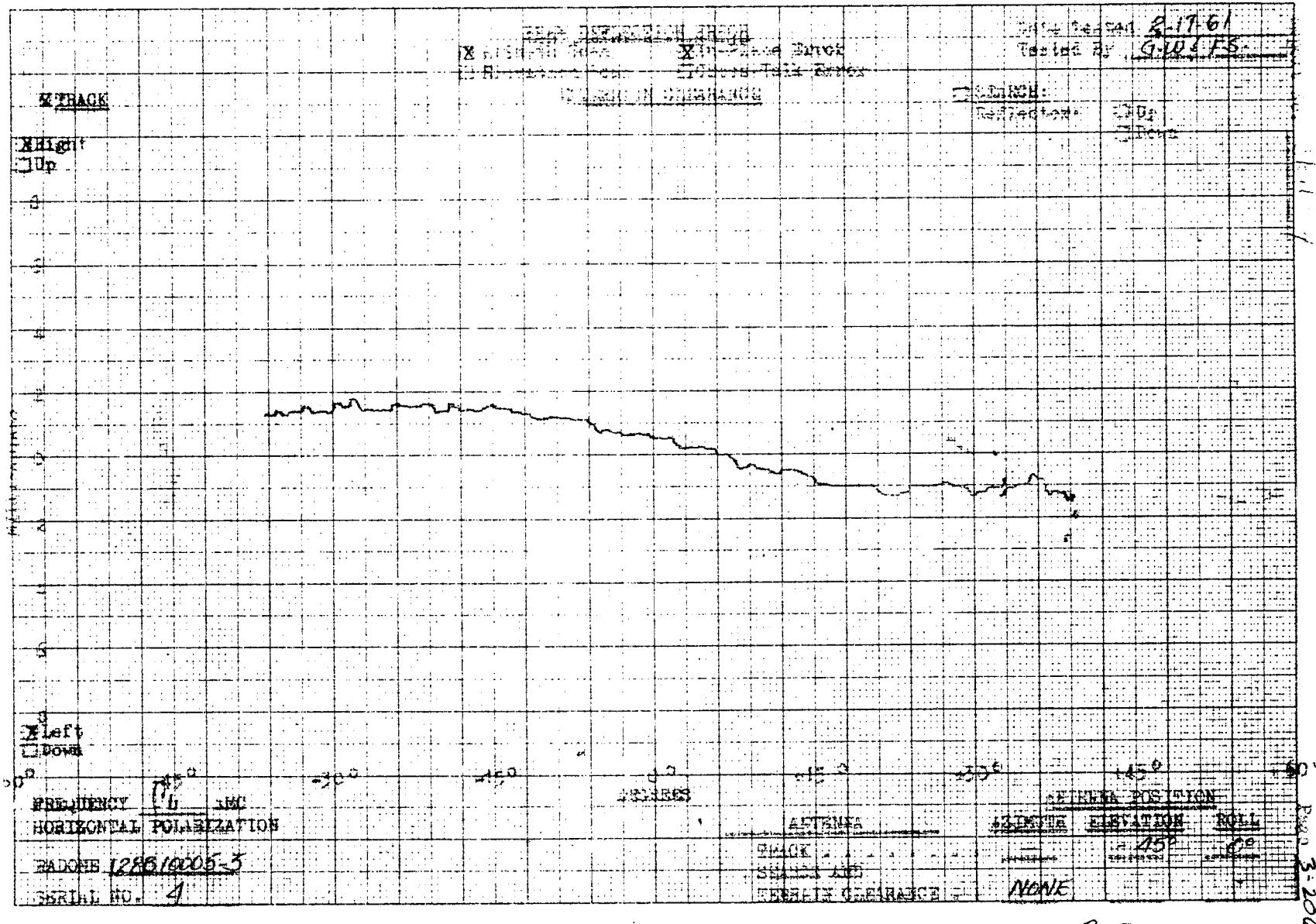
P-E

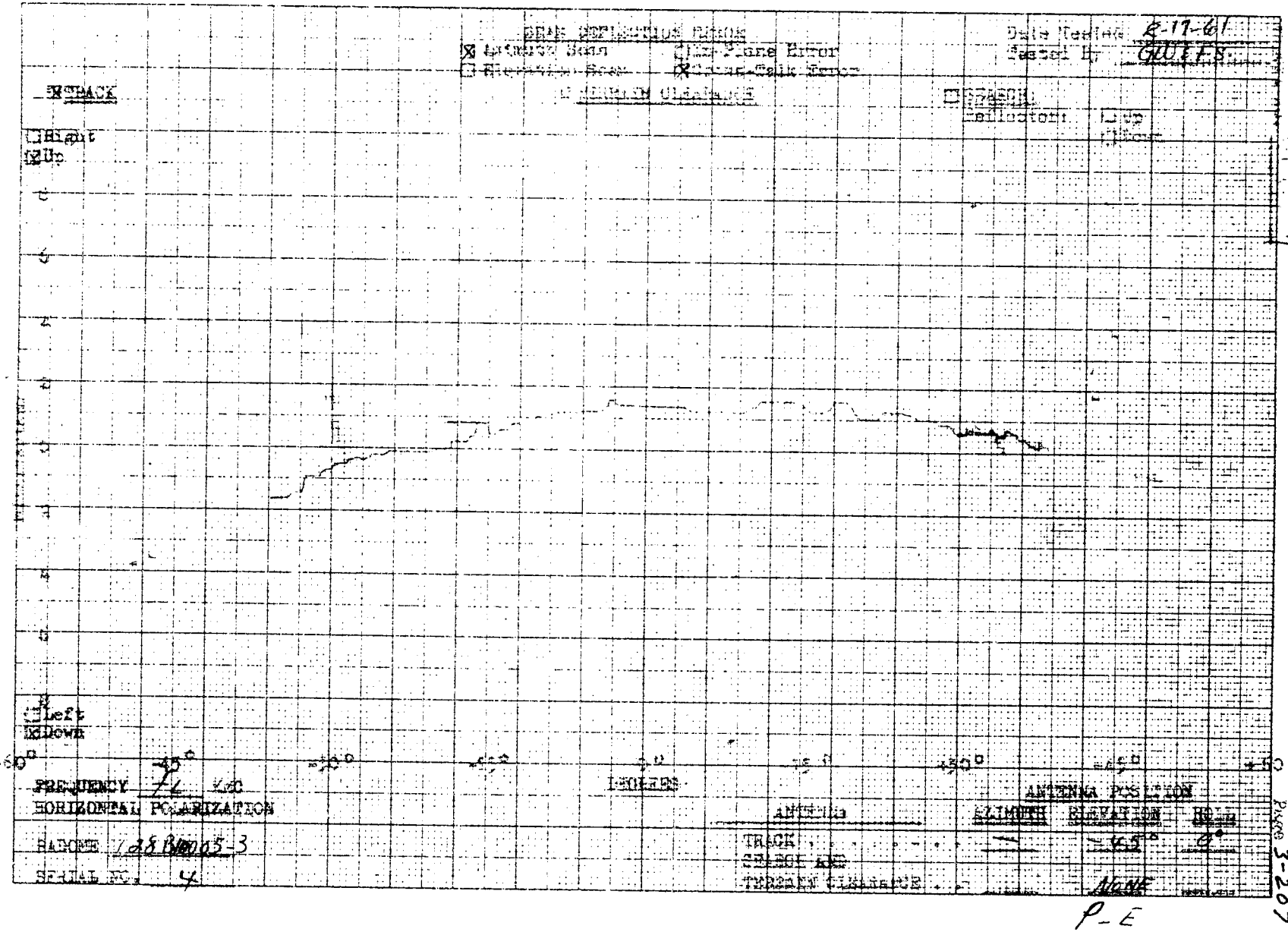
Page 3-204

K&E 10 X 10 TO THE INCH 359-11G



P.E.


Tested 8-17-61
Tested By G.D.& F.S.
TRACK
Right
Up
Left
Down
FREQUENCY 16 MC
HORIZONTAL POLARIZATION
RADOME 12861000-3
SERIAL NO. 4
ANTENNA
BLACK
SHADED AND
REFLEX CLEARANCE
NONE
ANTENNA POSITION
AZIMUTH
ELEVATION
45°
ROLL
0°
P-E
3-206

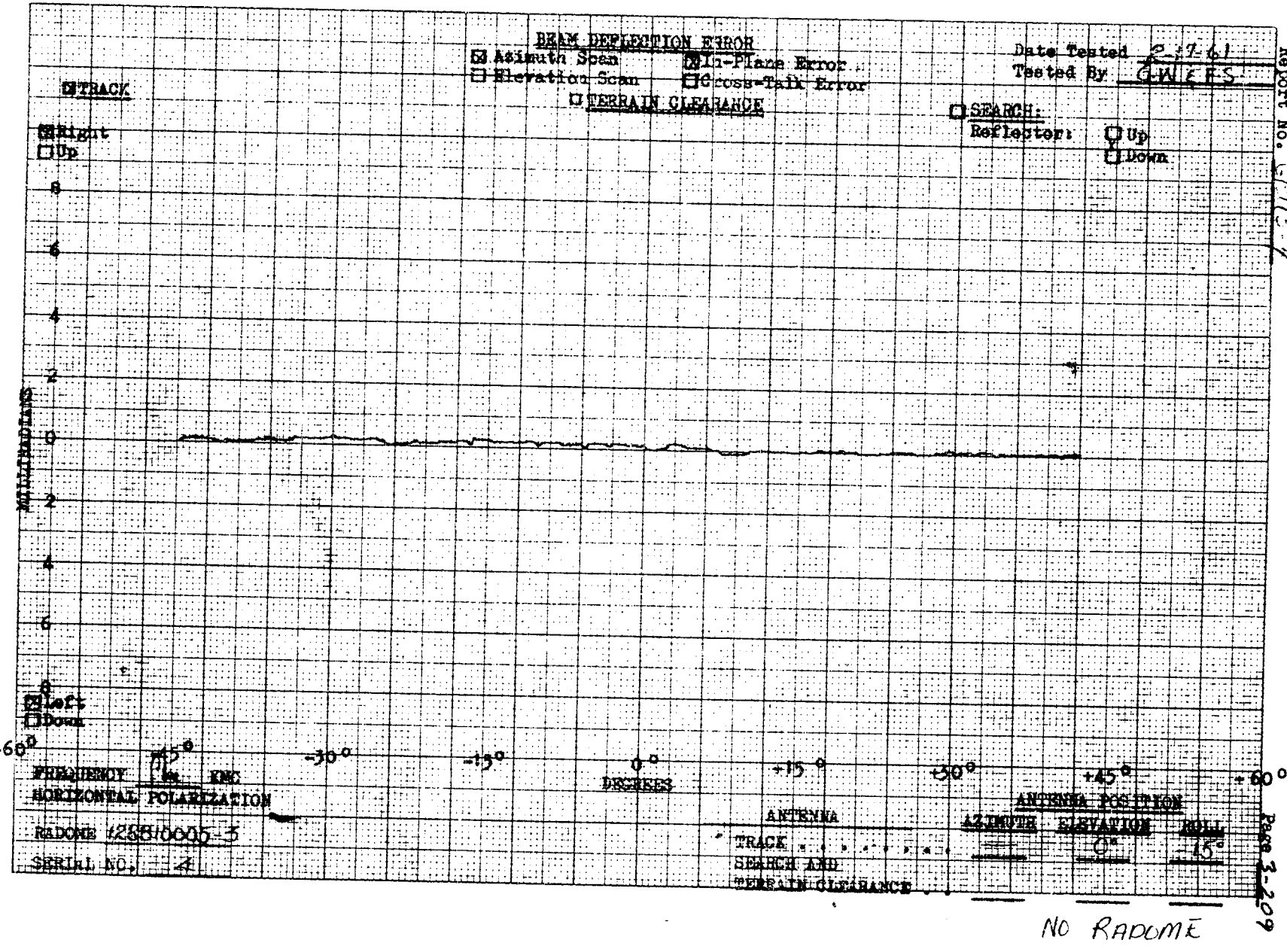

Date Tested 8-17-61
Tested By GUEST
Azimuth Beam
Elevation Beam
Plane Error
Cone-Cone Error
BACK
Right
Up
Left
Down
FREQUENCY 4 KMC
HORIZONTAL POLARIZATION
RADOME 28Bm05-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
RO
4.5°
0°
Mark
P-E
3-207

SECTION 3C

TRACK BORESIGHT ERROR

F_L @ -15° ROLL

K&E 10 X 10 TO THE ½ INCH 359-110
KEUFFEL & ESSER CO



BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W. & F.S.

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Tell Error

☐ TERRAIN CLEARANCE

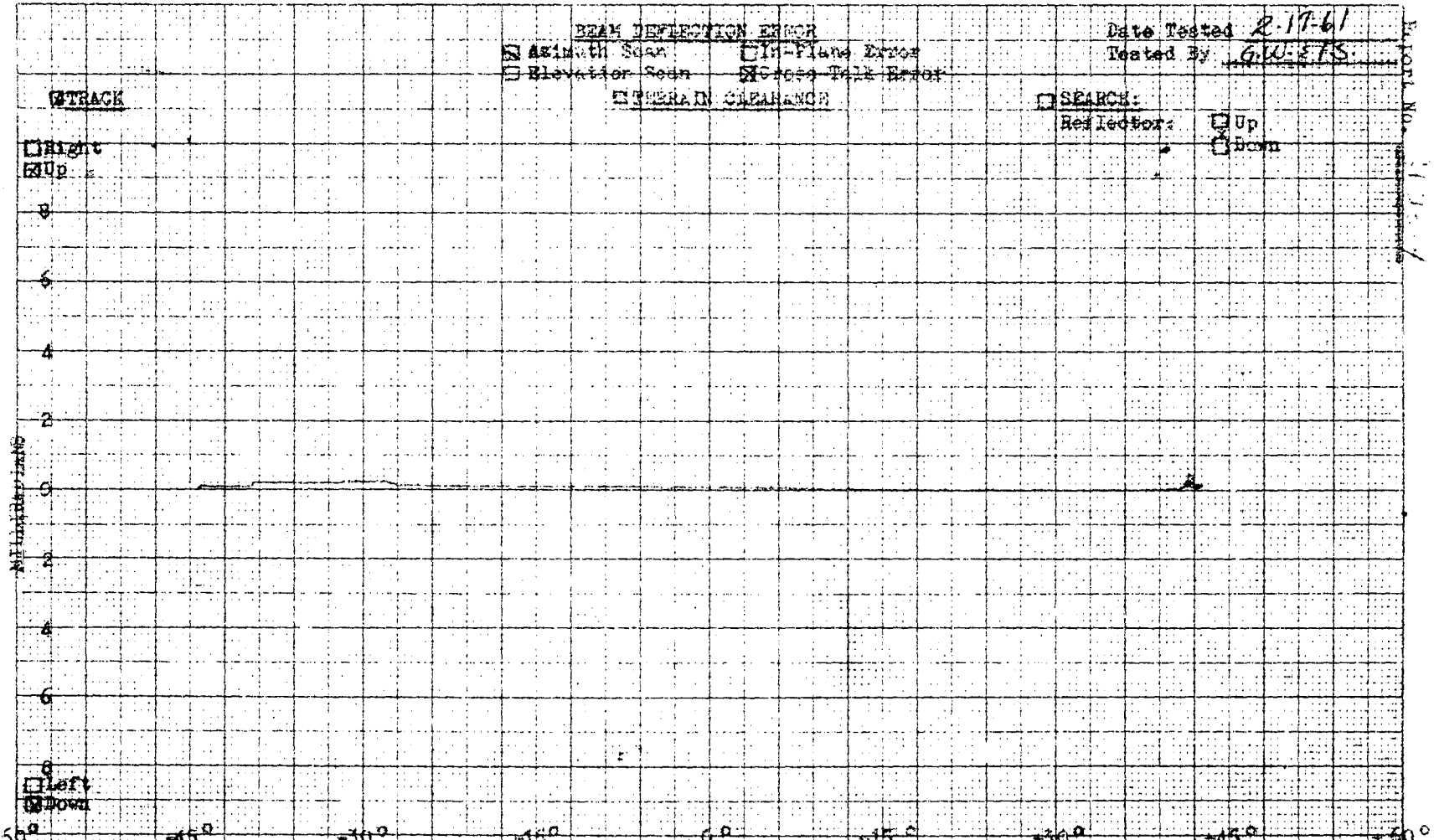
☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

RADOME 28610005-3

SERIAL NO. 4

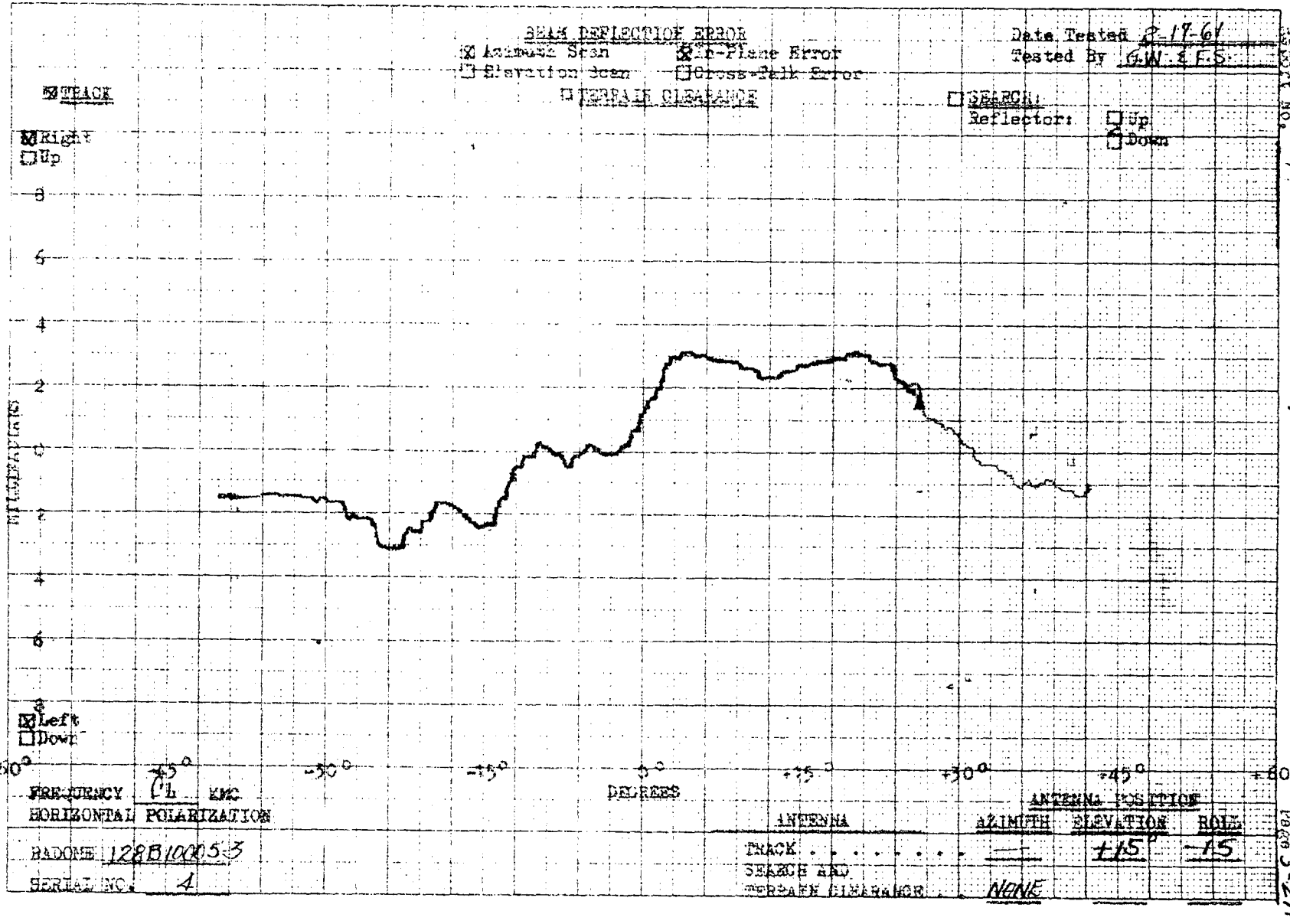
ANTENNA POSITION

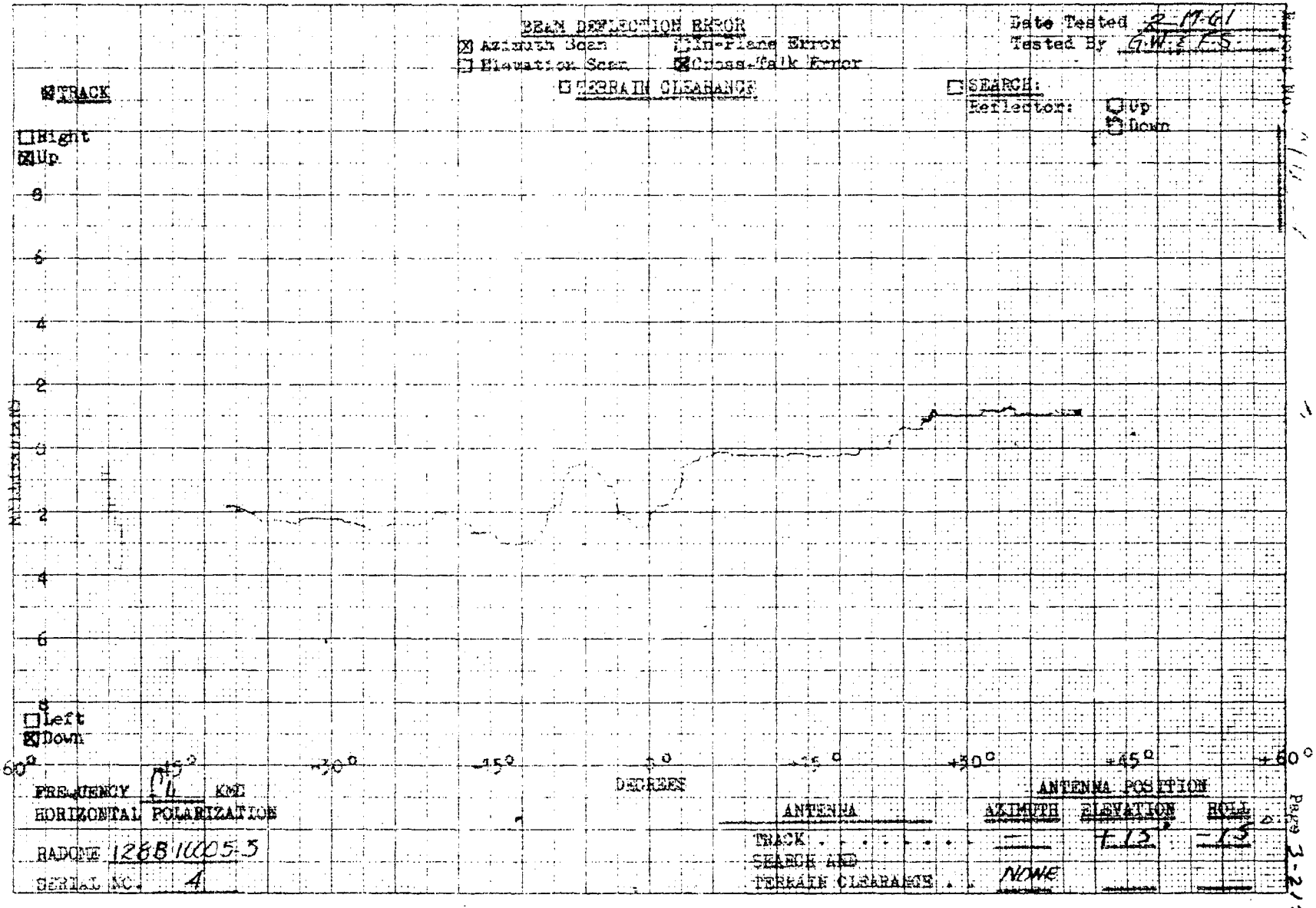
	AZIMUTH	ELEVATION	ROLL
BEAM		0°	-15°
SEARCH AND TERRAIN CLEARANCE			

NO RADOME

Effort No.

Page 3-240


BEAM DEFLECTION ERROR
Azimuth Scan
E-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 8-17-61
Tested By G.W. & F.S.
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Report No. 1
MILLIAMPERES
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK — +15° -15°
SEARCH AND TERRAIN CLEARANCE NONE
Page 3-21


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Null-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W.F. F.S.
TRACK
Right
Up
Left
Down
SEARCH:
Reflector: Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 14 KMC
HORIZONTAL POLARIZATION
RADOME 128B1100S-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
—
+13°
-15°
SEARCH AND TERRAIN CLEARANCE
NONE
—
—

Page 3-212

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested by G.W. & F.S.

☒ Azimuth Stem ☒ Air-Plane Error

☐ Elevation Stem ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ TRACK

☒ Right

☐ Up

☐ SEARCH

Reflector: ☐ Up ☐ Down

6

5

4

3

2

1

0

1

2

3

4

5

6

MILLIRADIANS

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 6.4 KMC

HORIZONTAL POLARIZATION

RADOME 1288 10005-3

SERIAL NO. A

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	+10°	-15
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 343

BEAM DEFLECTION ERROR

Date Tested 8-17-61

Tested By G.W.E.S.

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☒ TRACK ☐ TERRAIN CLEARANCE ☐ SEARCH: Reflector: ☐ Up ☐ Down

☐ Right
☒ Up

8
6
4
2
0
2
4
6
8

☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +45° +60°

DEGREES

FREQUENCY 7.6 KMC
HORIZONTAL POLARIZATION

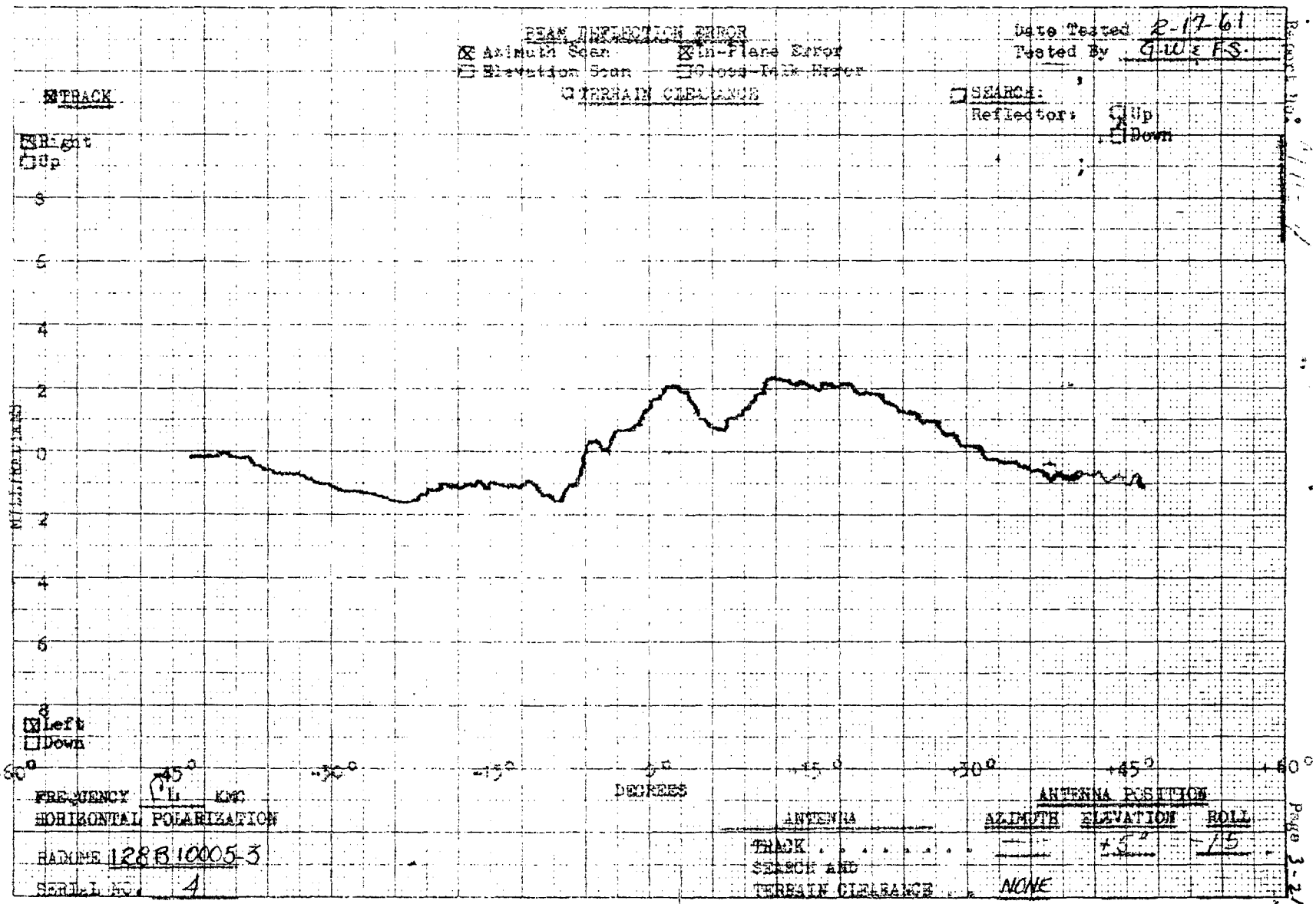
RADOME 1288 #0005

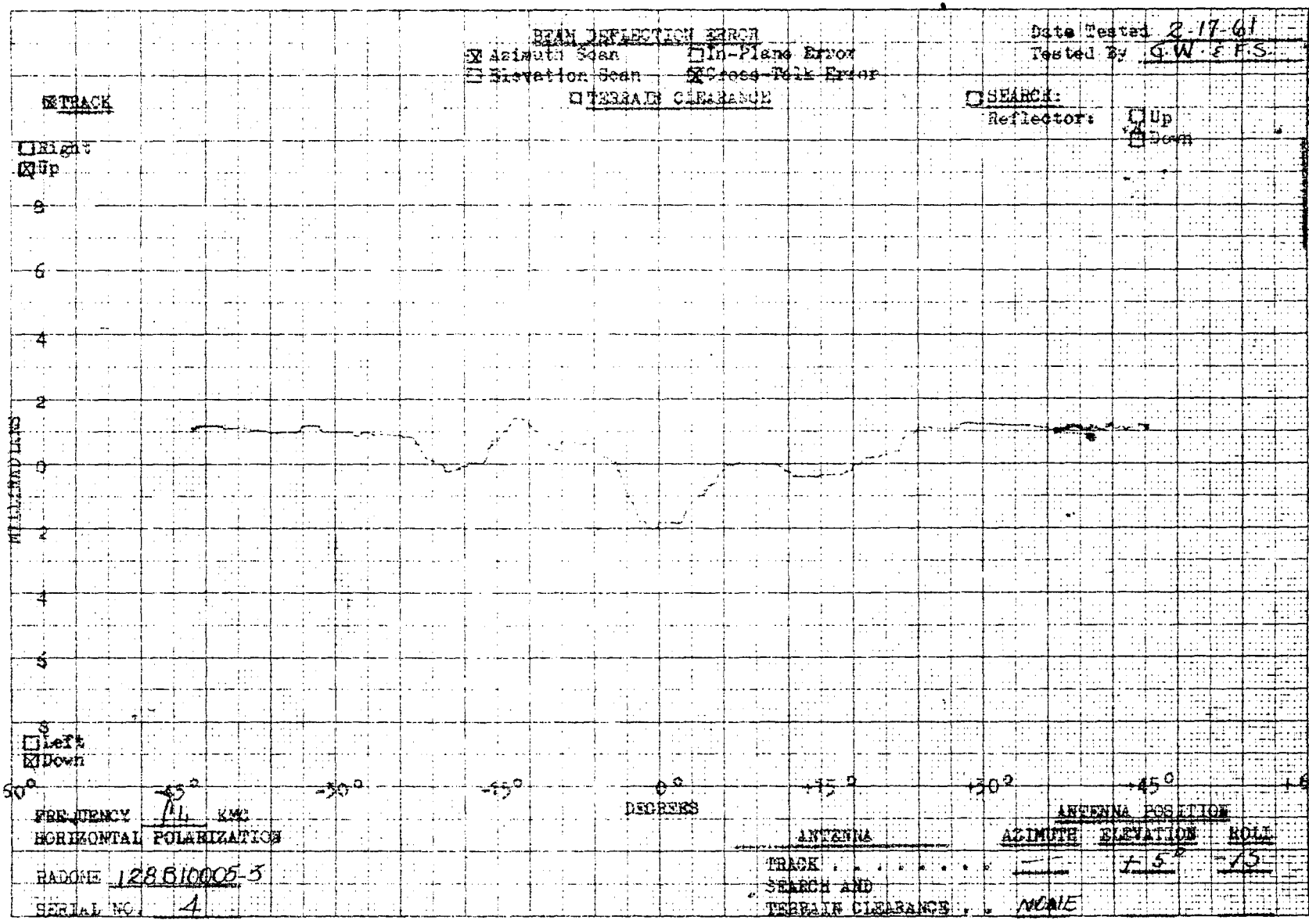
SERIAL NO. 4

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	———	110	-15
SEARCH AND TERRAIN CLEARANCE	NONE		

ANTENNA POSITION

Page 5-2-4


PEAK DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Sin-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W. & F.S.
TRACK
SEARCH:
Reflector:
Up
Down
Right
Up
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
+5°
-15
Report No.
Page 3-215


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 8-17-61
Tested By G.W. & F.S.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
9
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 12861000S-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
+5°
-15

BEAM DEFLECTION ERROR

Date Tested 8-17-61

Tested By G.W.E.F.S.

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ TRACK ☐ SEARCH:

Reflector: ☐ Up ☒ Down

☒ Right
☐ Up

MILLIAMPERES

9
5
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 4 KMC

HORIZONTAL POLARIZATION

RADOME 1288K0005-5

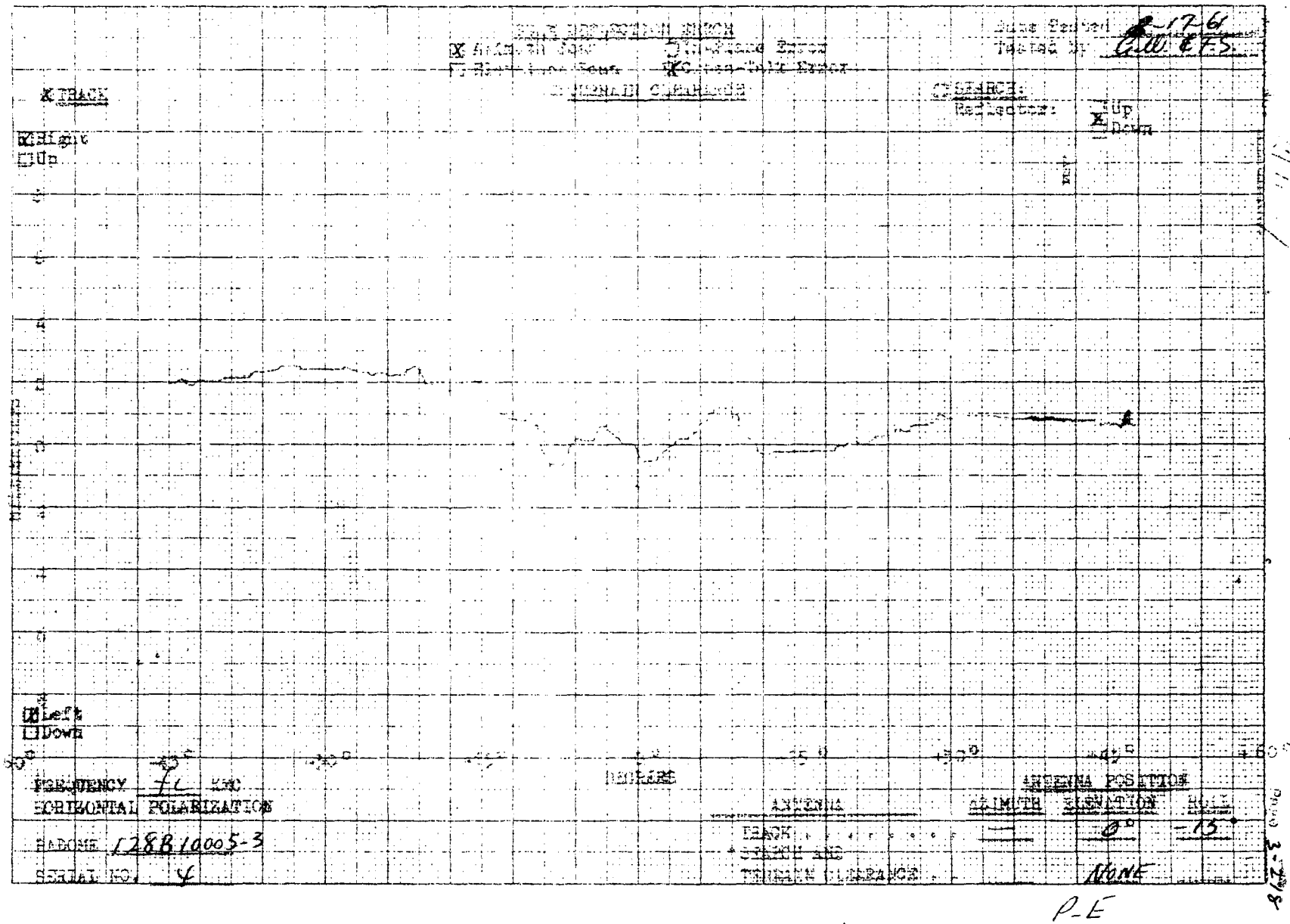
SERIAL NO. 4

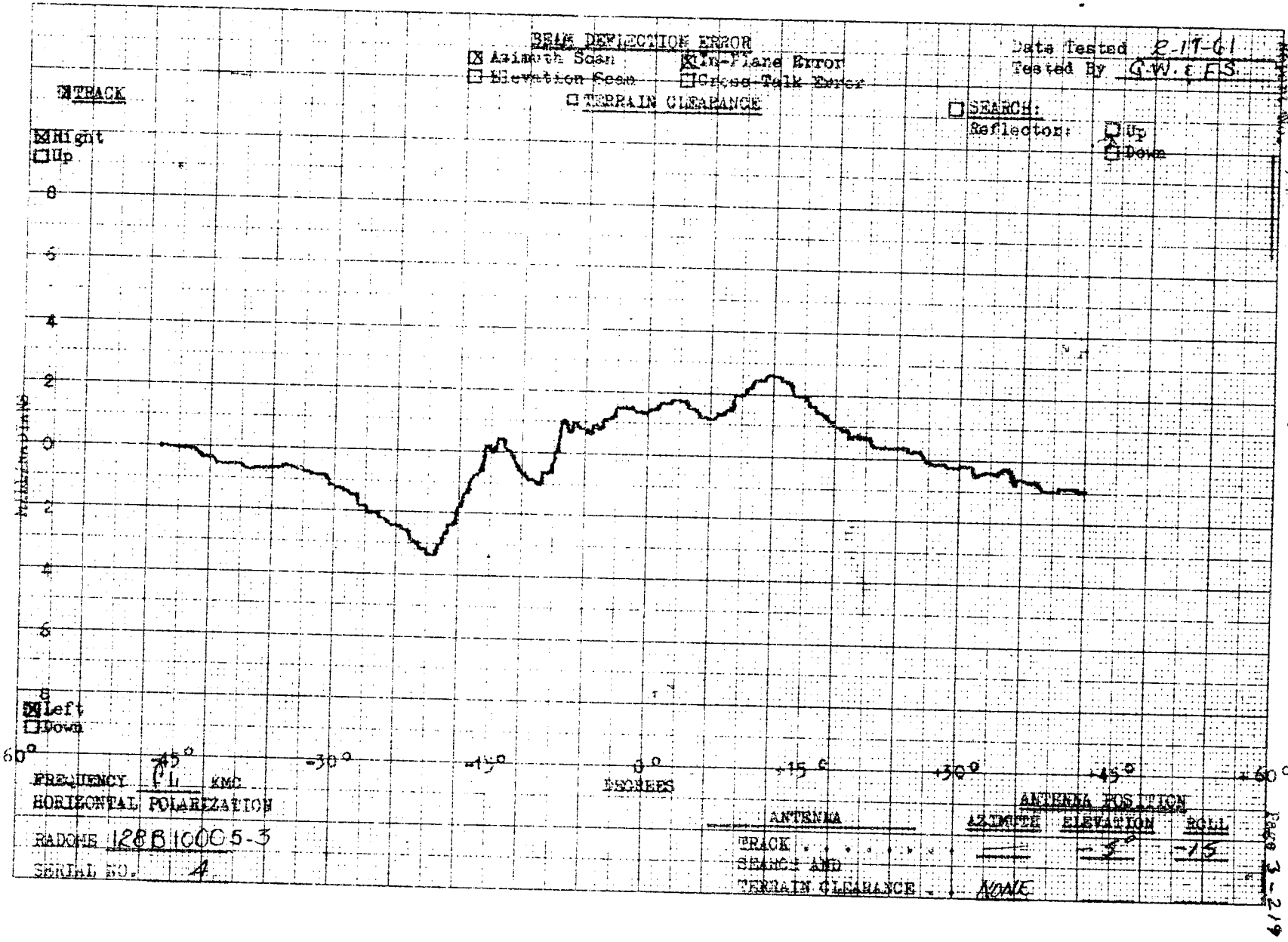
ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	0	15°
SEARCH AND TERRAIN CLEARANCE	NONE		

Report No. [illegible]

Page 3-217

P.E


Date Tested: 4-17-76
TRACK
Right
Up
Left
Down
Up
Down
FREQUENCY fc MHz
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
0°
-13°
NONE
P-E


BEAM DEFLECTION ERROR
☒ Azimuth Scan
☐ Elevation Scan
☒ In-Plane Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W. & F.S.
☒ TRACK
☒ Right
☐ Up
☐ SEARCH:
Reflector: ☐ Up ☐ Down
Milliradians
8
6
4
2
0
2
4
6
8
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE NONE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-5° -15°
Page 3-219

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W.E.S.

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

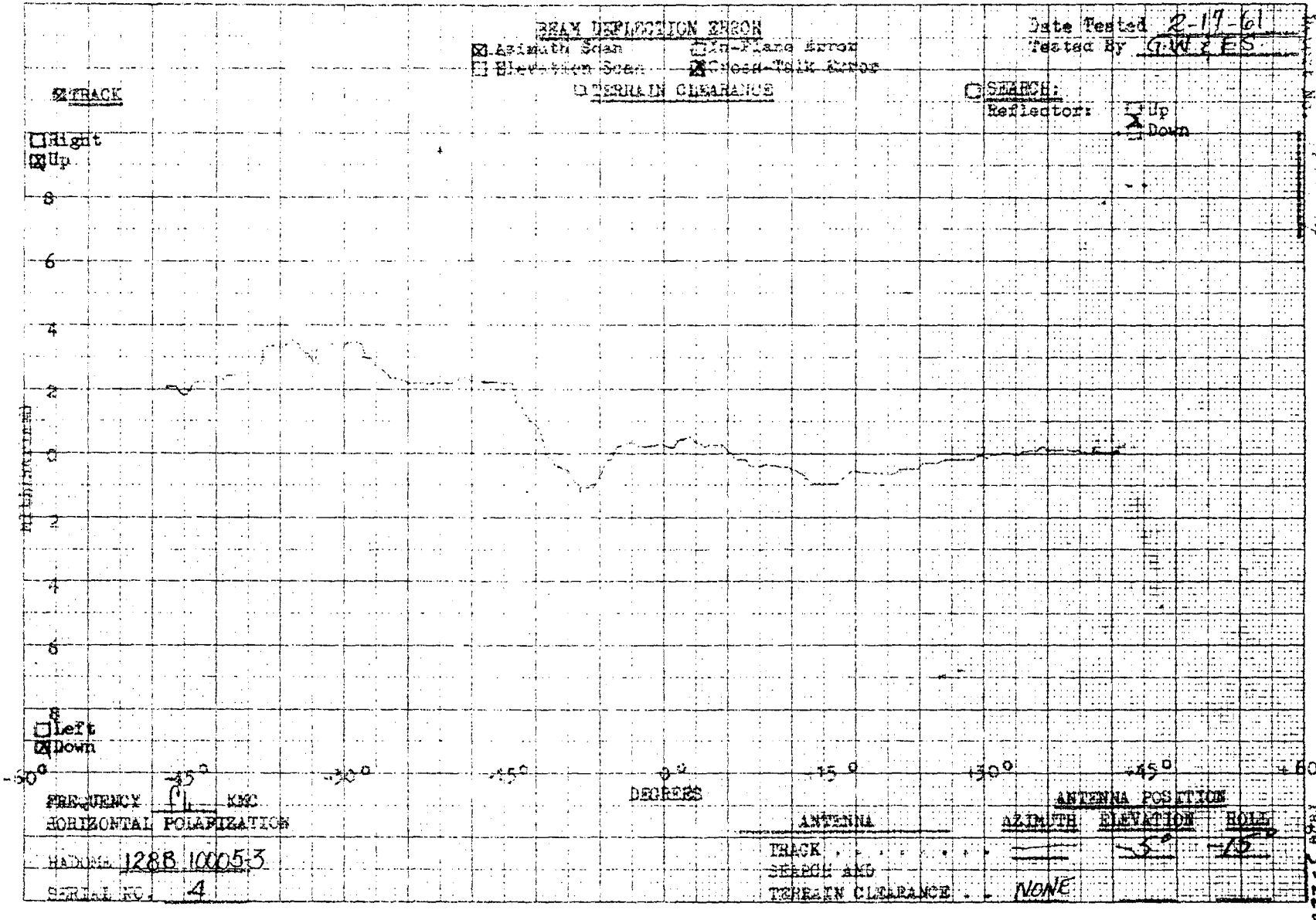
☒ TRACK

☐ SEARCH:

Reflector: ☐ Up ☒ Down

☐ Right

☒ Up



☐ Left

☒ Down

FREQUENCY 5 KMC

HORIZONTAL POLARIZATION

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	HOLE
TRACK		3°	15
SEARCH AND TERRAIN CLEARANCE	NONE		

HARDWARE 128B 100513

SERIAL NO. 4

Page 3-220

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ Xt-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Data Tested 2-17-61

Tested By GW. ETS

Report No. [illegible]

☒ TRACK ☐ SEARCH: Reflector: ☐ Up ☒ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6

MILLIRADIANS

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 1L MC

HORIZONTAL POLARIZATION

RADOME 1286 10005-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-16°	-15
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 3-22

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ x-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

TERRAIN CLEARANCE

Date Tested 2-17-61

Tested By GW & ES

☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☒ Down

8

6

4

2

0

2

4

6

8

Millidegrees

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 6.4 KMC

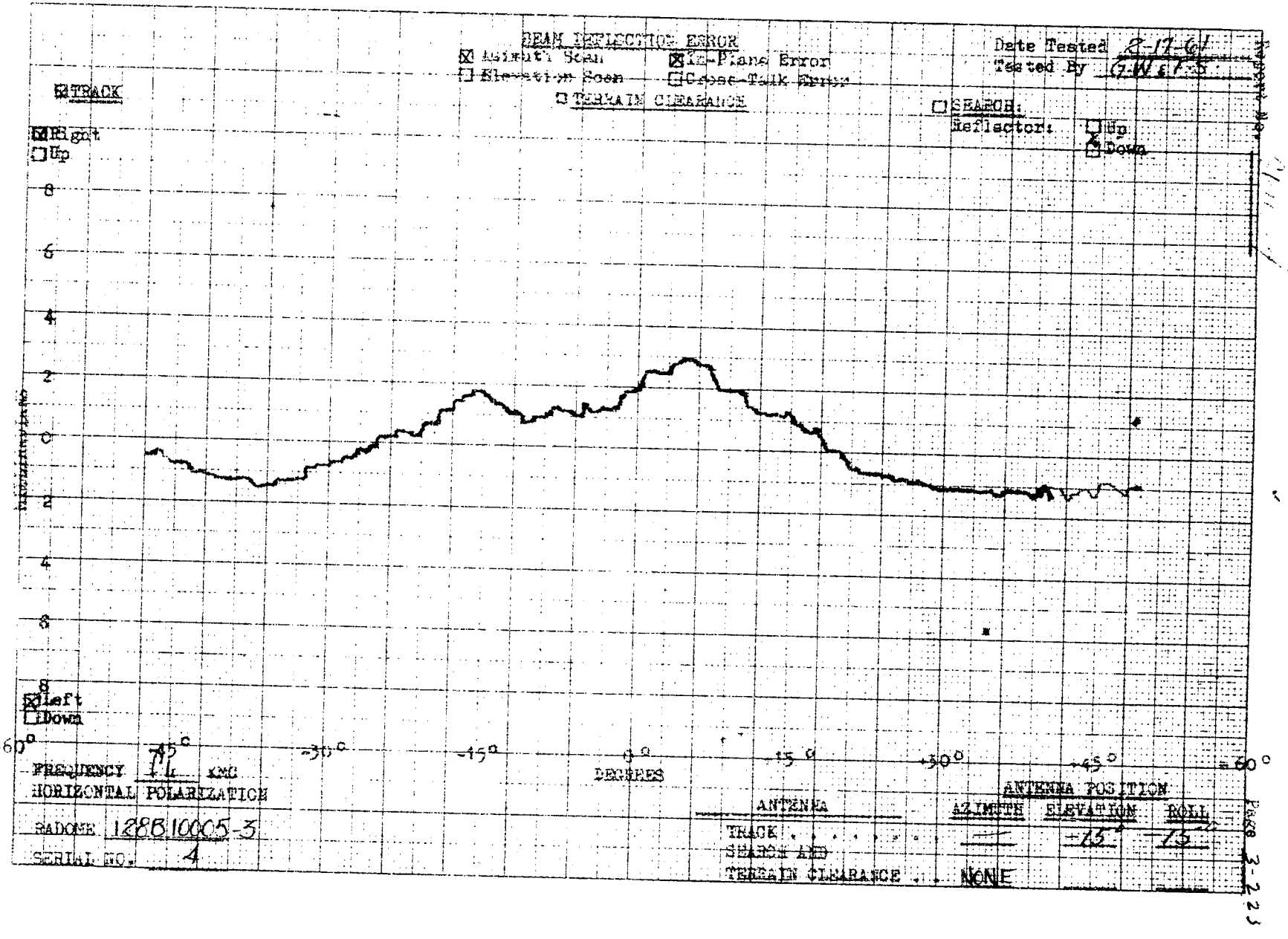
HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	-10°	-15°
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 3-222


BEAM DEFLECTION ERROR
☒ Azimuth Scan
☒ E-Plane Error
☐ Elevation Scan
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W.F.S.
☒ TRACK
☒ Right
☐ Up
☐ SEARCH:
Reflector: ☐ Up
☐ Down
8
6
4
2
0
2
4
6
8
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 1286 10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-45
-15

BEAM DEFLECTION GROUP

☒ Azimuth Scan ☐ Air-frame Error

☐ Elevation Scan ☒ Cross-talk Error

☒ TERRAIN CLEARANCE

Date Tested 2-17-61

Tested By G.W.E.F.S.

☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down

8

6

4

2

0

2

4

6

8

MILLIRADIANS

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK		-15°	-15°
SEARCH AND TERRAIN CLEARANCE	NONE		

Report No. GW-61-4

Page 3-224

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W. & A.S.

Report No. (illegible)

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

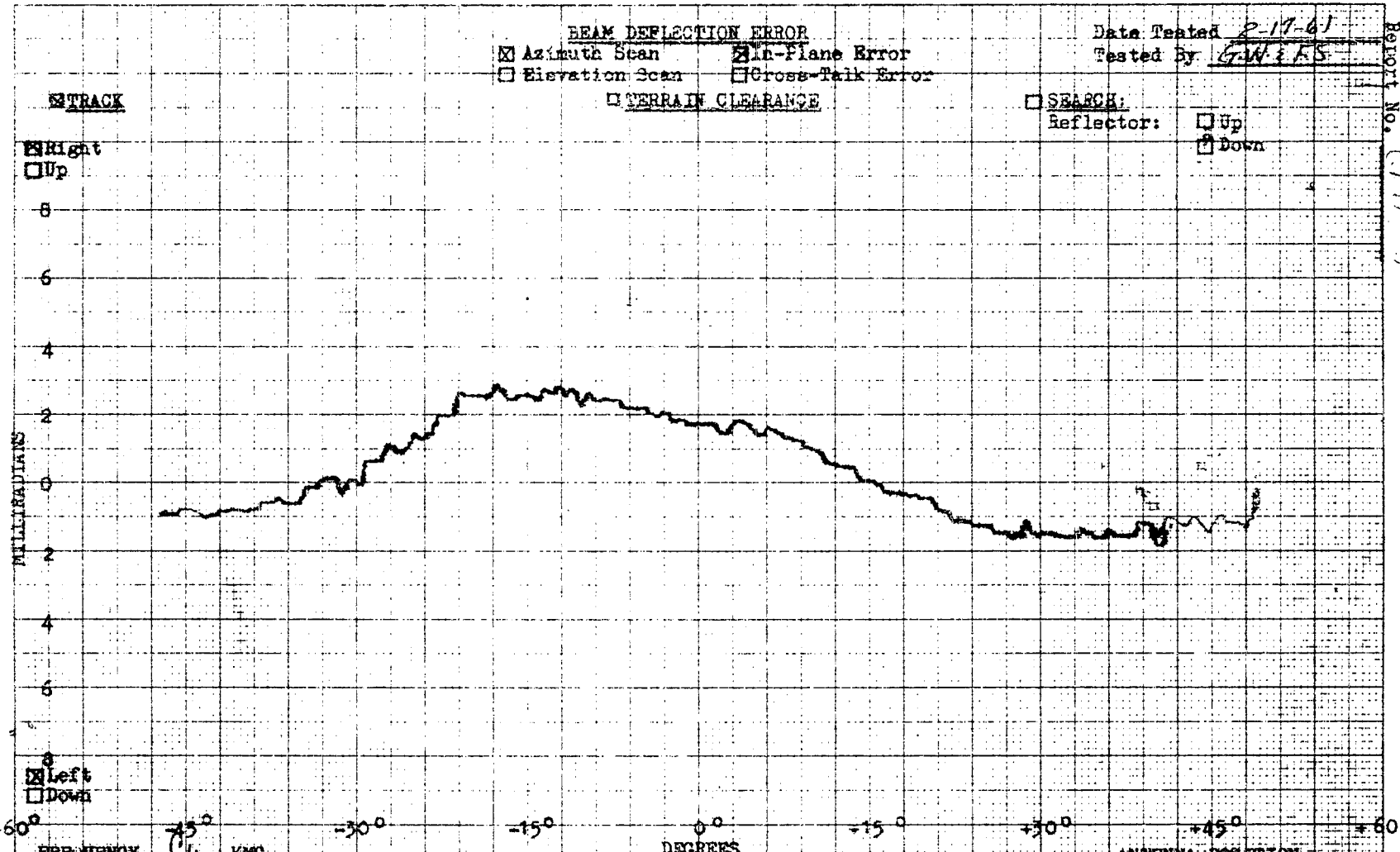
☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☒ Down



☒ Left

☐ Down

FREQUENCY 11 KMC

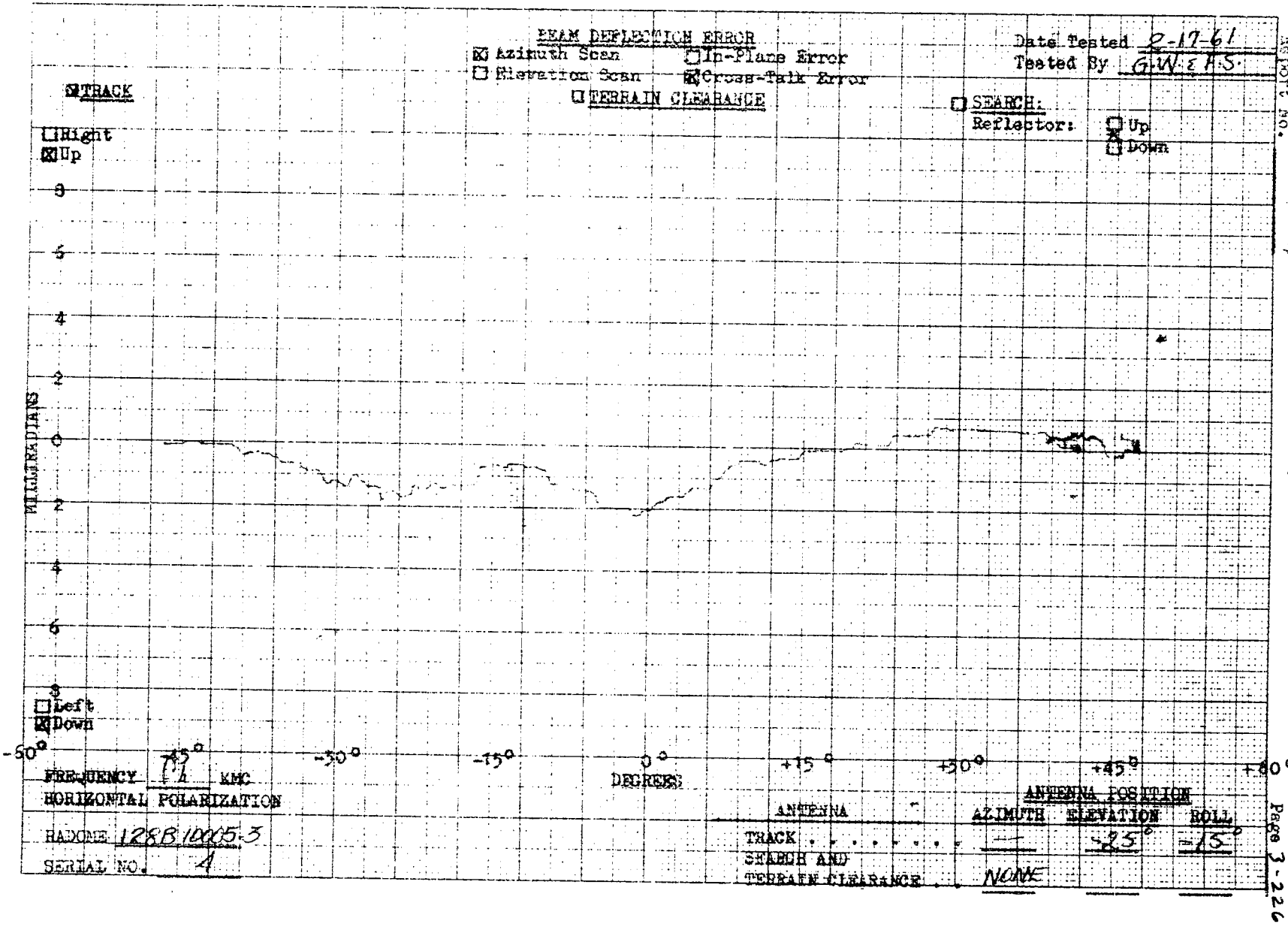
HORIZONTAL POLARIZATION

RADOME 1286 10005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	———	-25°	-15°
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 3-225


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By G.W. & H.S.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
9
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11.4 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
—
-25°
-15°
NONE

Report No. 1

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W. & F.S.

☒ Azimuth Scan ☒ X-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ TRACK ☐ SEARCH

Reflector: ☐ Up ☒ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

RADOME 128B1005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	-35°	-15°
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 3-227

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By G.W. & F.S.

☒ Azimuth Scan ☐ E-Plane Error

☐ Elevation Scan ☒ Monopulse Error

☐ TERRAIN Clearance

☒ TRACK

☐ Right

☒ Up

☐ SEARCH: Reflector: ☐ Up ☐ Down

8

6

4

2

0

2

4

6

8

DEFLECTION DEGREES

☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 7GL KMC

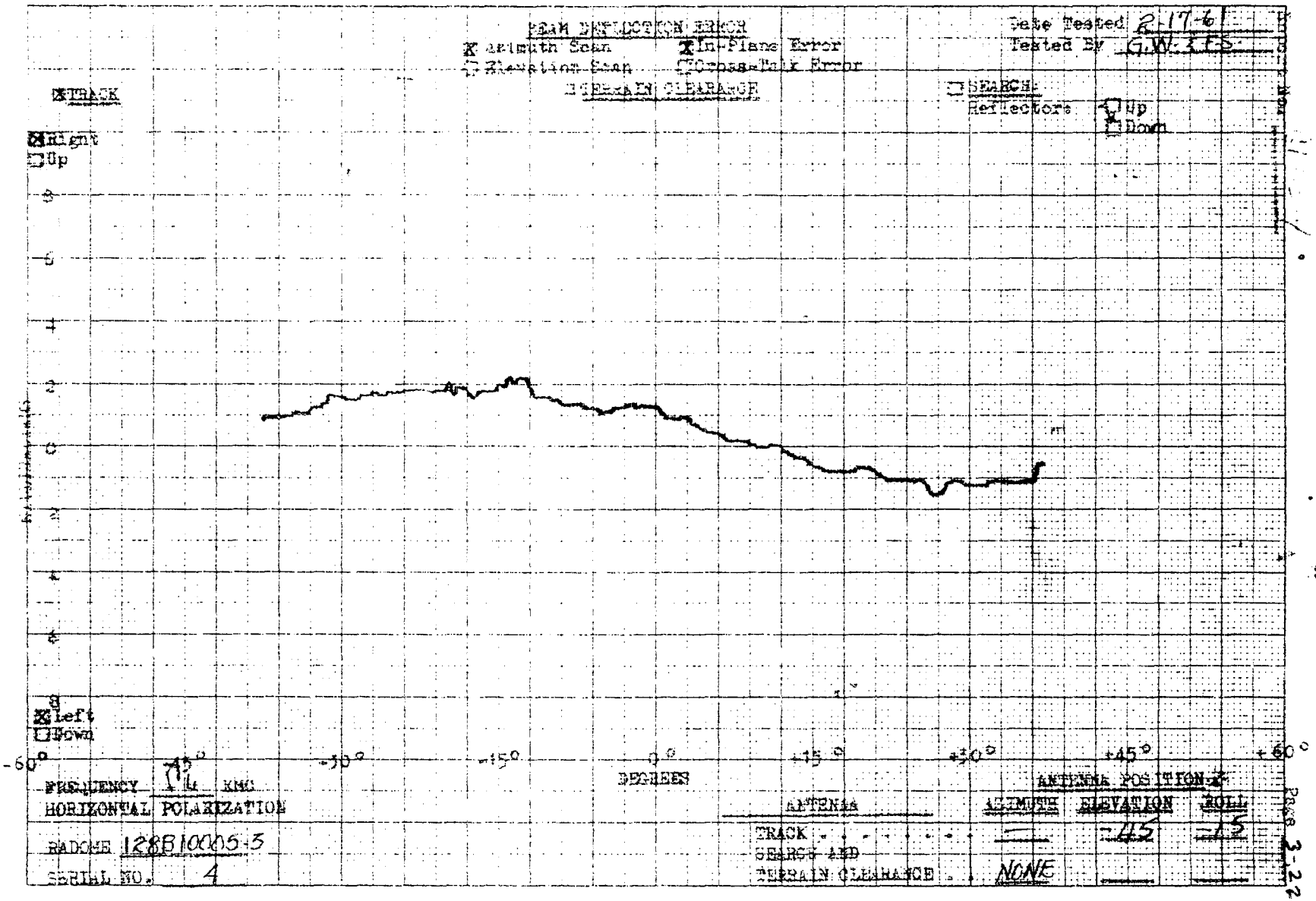
HORIZONTAL POLARIZATION

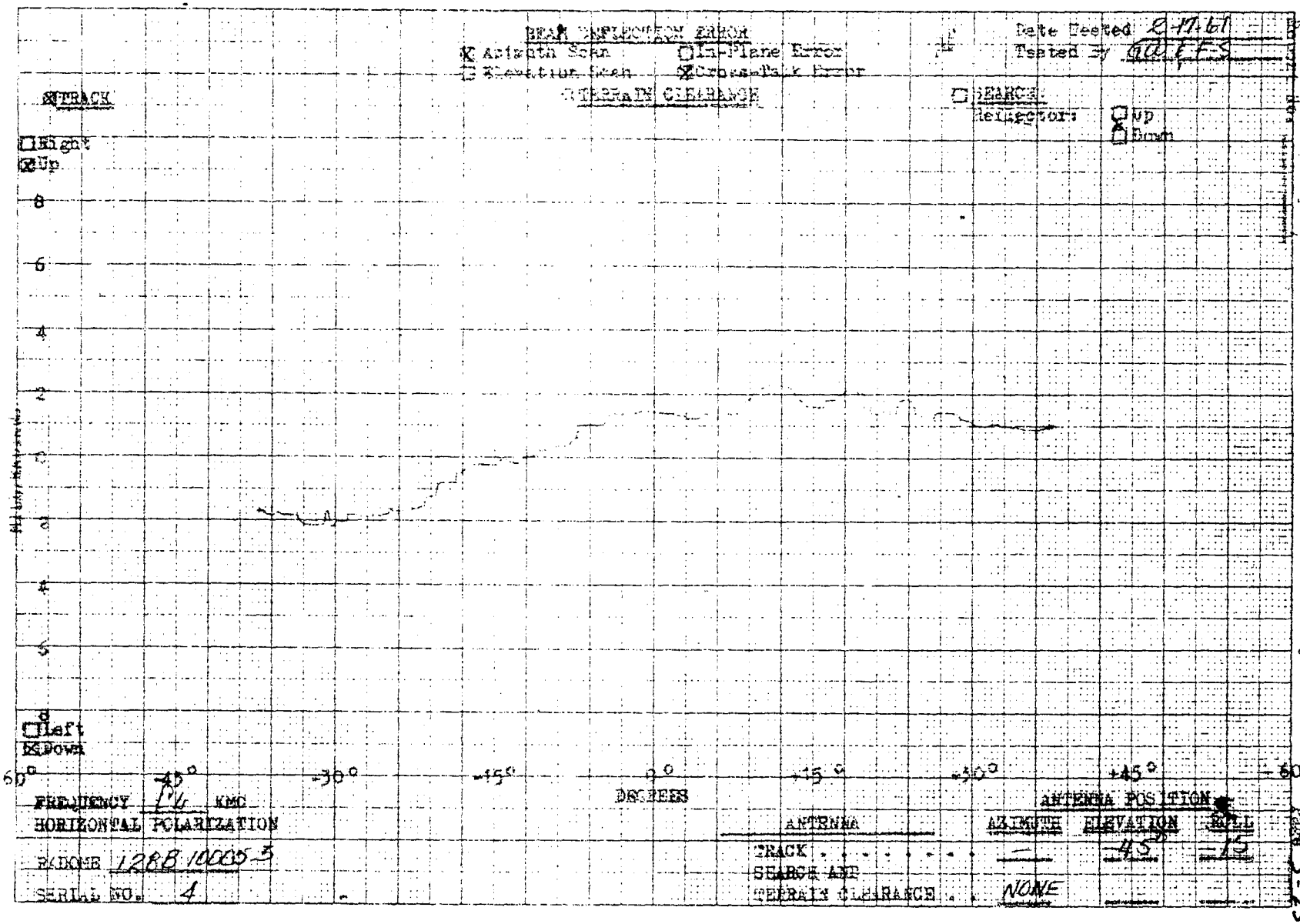
RADOME 128B KKK5-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK		25°	15
SEARCH AND TERRAIN CLEARANCE	NONE		

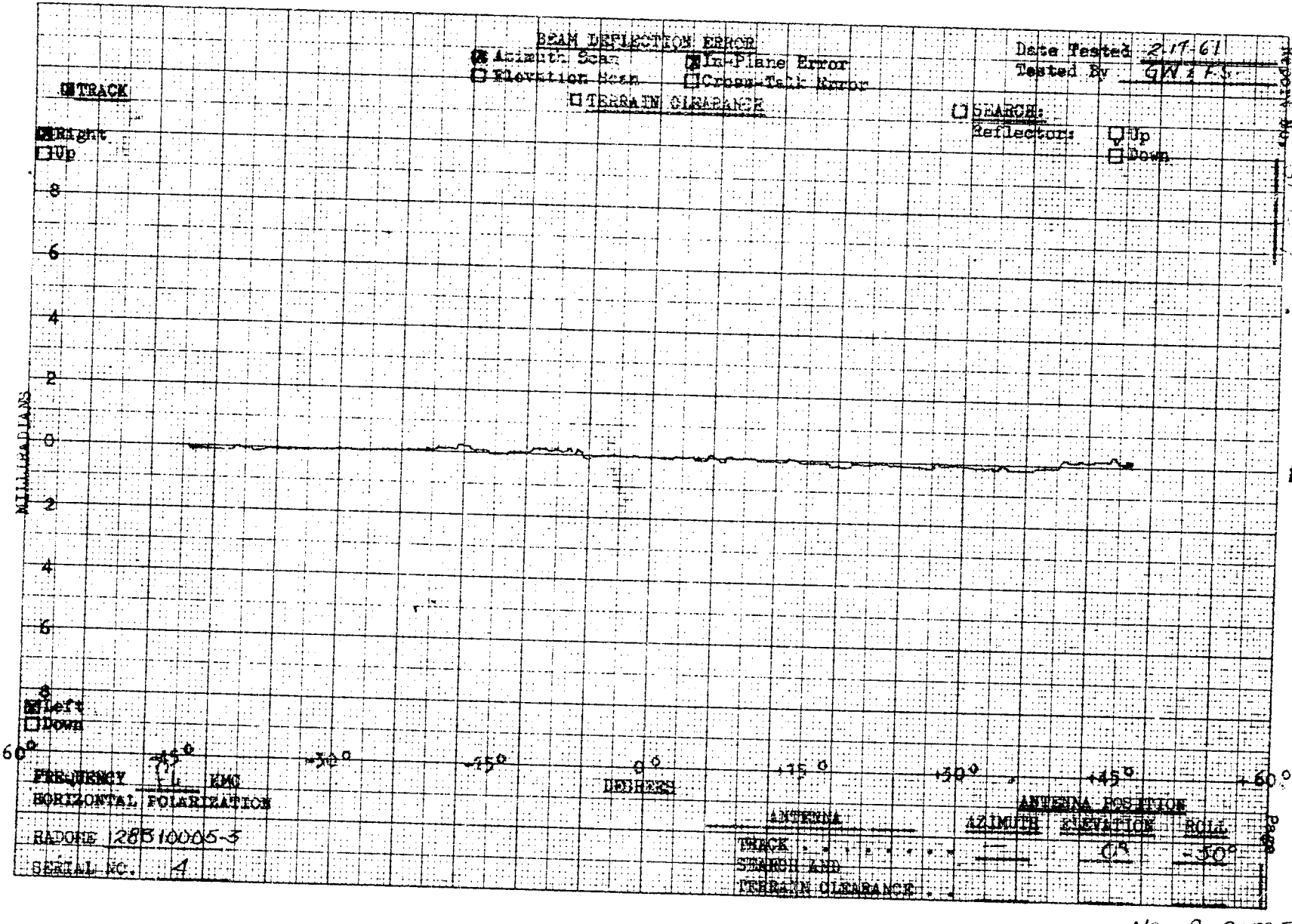

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-6
Tested By G.W.
TRACK
Right
Up
Left
Down
SEARCH
Reflectors
Up
Down
6
4
2
0
2
4
6
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-45
-15


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GCEFS
TRACK
SEARCH
Deflection:
Up
Down
Right
Up
Left
Down
8
6
4
2
0
2
4
6
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 1.6 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-45°
-15°

SECTION 3J

TRACK BORESIGHT ERROR

F_L @ -30° ROLL



3-232

NO RADOME

K&E 10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.

BEAM DEFLECTION ERROR
☒ Azimuth Scan ☐ In-Plane Error
☐ Elevation Scan ☒ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-17-61
Tested By GW & FS.

☐ SEARCH: Reflector: ☐ Up ☐ Down

☒ TRACK
☒ Right
☒ Up
☒ Left
☒ Down

Report No. 1111-4

Minutes

8 6 4 2 0 2 4 6 8

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 1.6 KMC
HORIZONTAL POLARIZATION

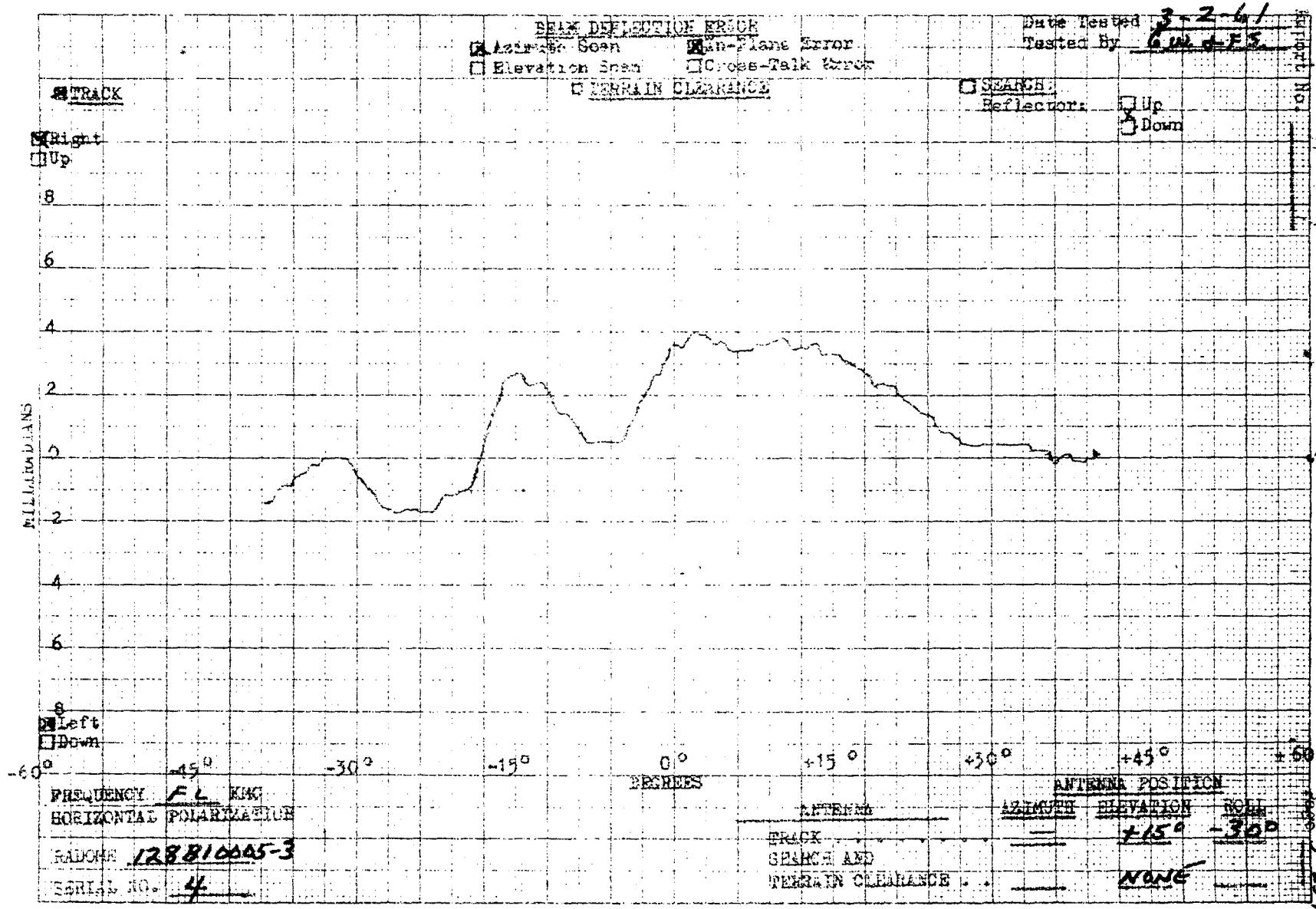
RADOME 1283/0005-3
SERIAL NO. 4

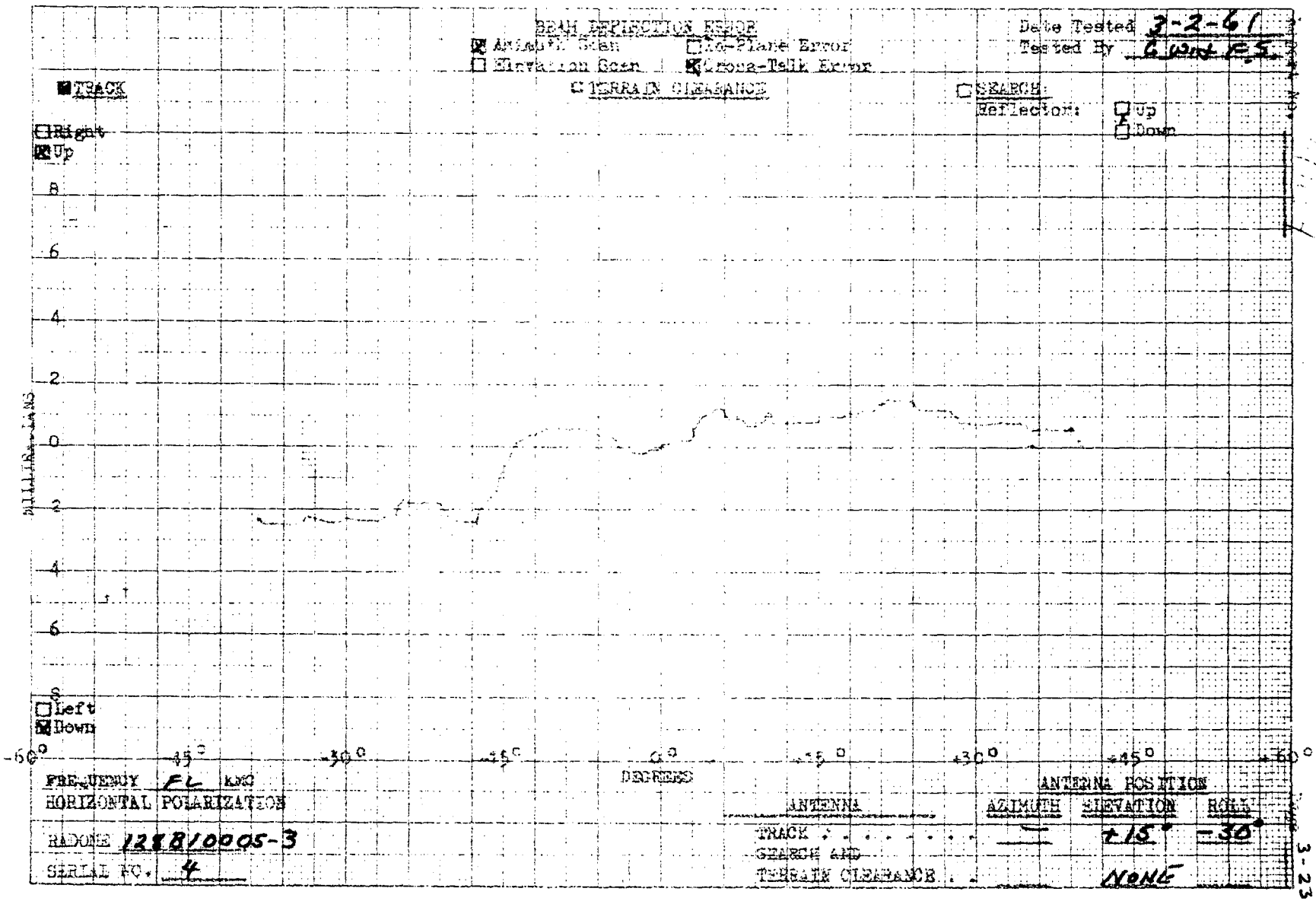
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE

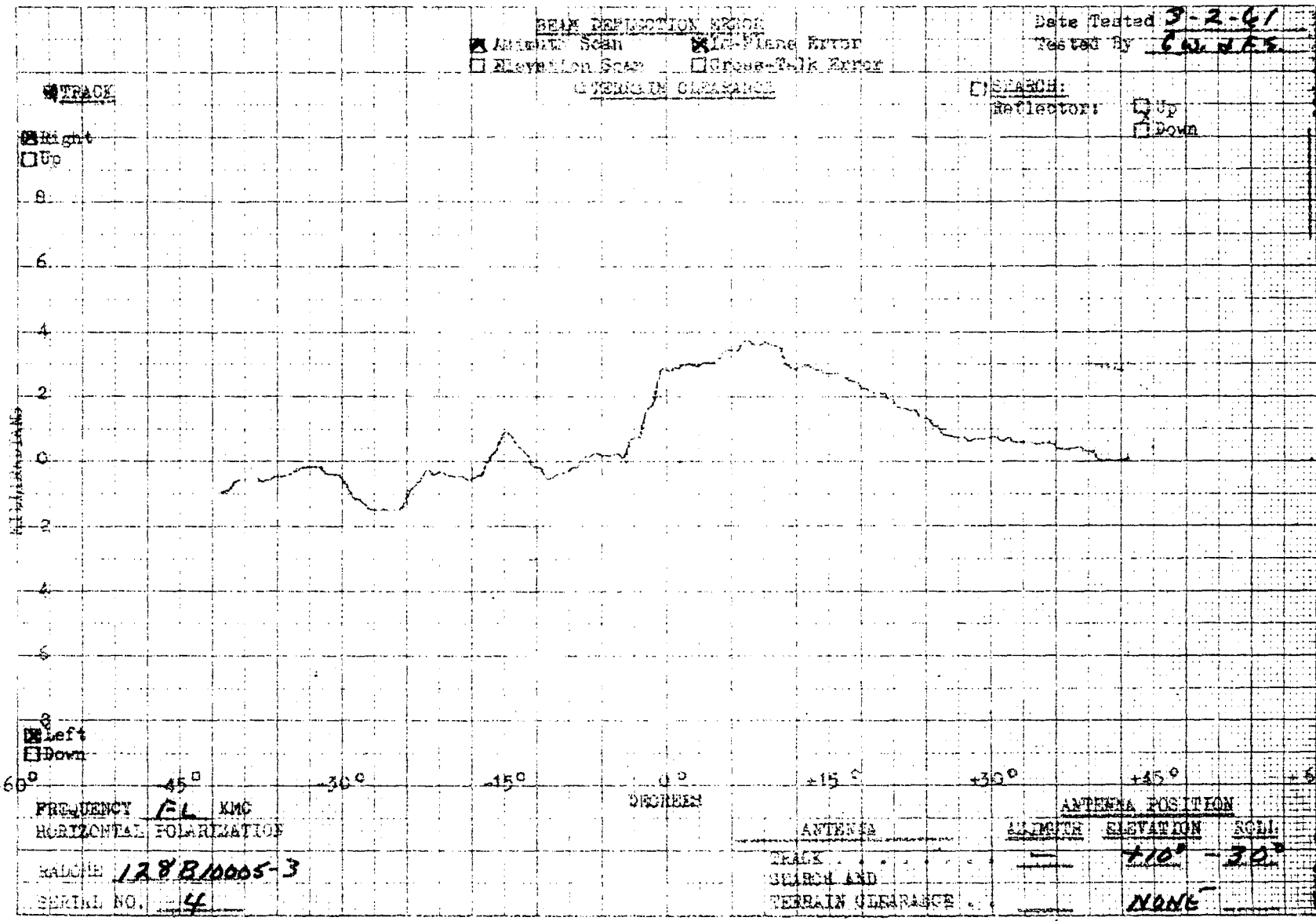
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° 0° 90°

NO RADOME

Page 3-233


BEAM DEFLECTION ERROR
Azimuth Beam
Elevation Beam
Out-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By GW & FS
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL MC
HORIZONTAL POLARIZATION
RADOME 1288100A5-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK — +15° -30°
SEARCH AND TERRAIN CLEARANCE — None —
3-234


BEAM DEFLECTION ERROR
☒ Azimuth Gear
☐ Elevation Gear
☐ Cross-Plane Error
☒ Cross-Talk Error
Date Tested 3-2-61
Tested By G. Wint R.S.
☒ TRACK
☐ TERRAIN CLEARANCE
☐ SEARCH
Reflection: ☐ Up ☐ Down
☐ Right
☒ Up
8
6
4
2
0
2
4
6
8
☐ Left
☒ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL KMC
HORIZONTAL POLARIZATION
RADOME 12881/0005-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
+15°
-30°
NONE


BEAM REFLECTION SCAN
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By G.W. H.E.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6L KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
+10° -30°
NONE
Page 3-236

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

Date Tested 3-2-61

Tested By [illegible]

☐ TERRAIN CLEARANCE

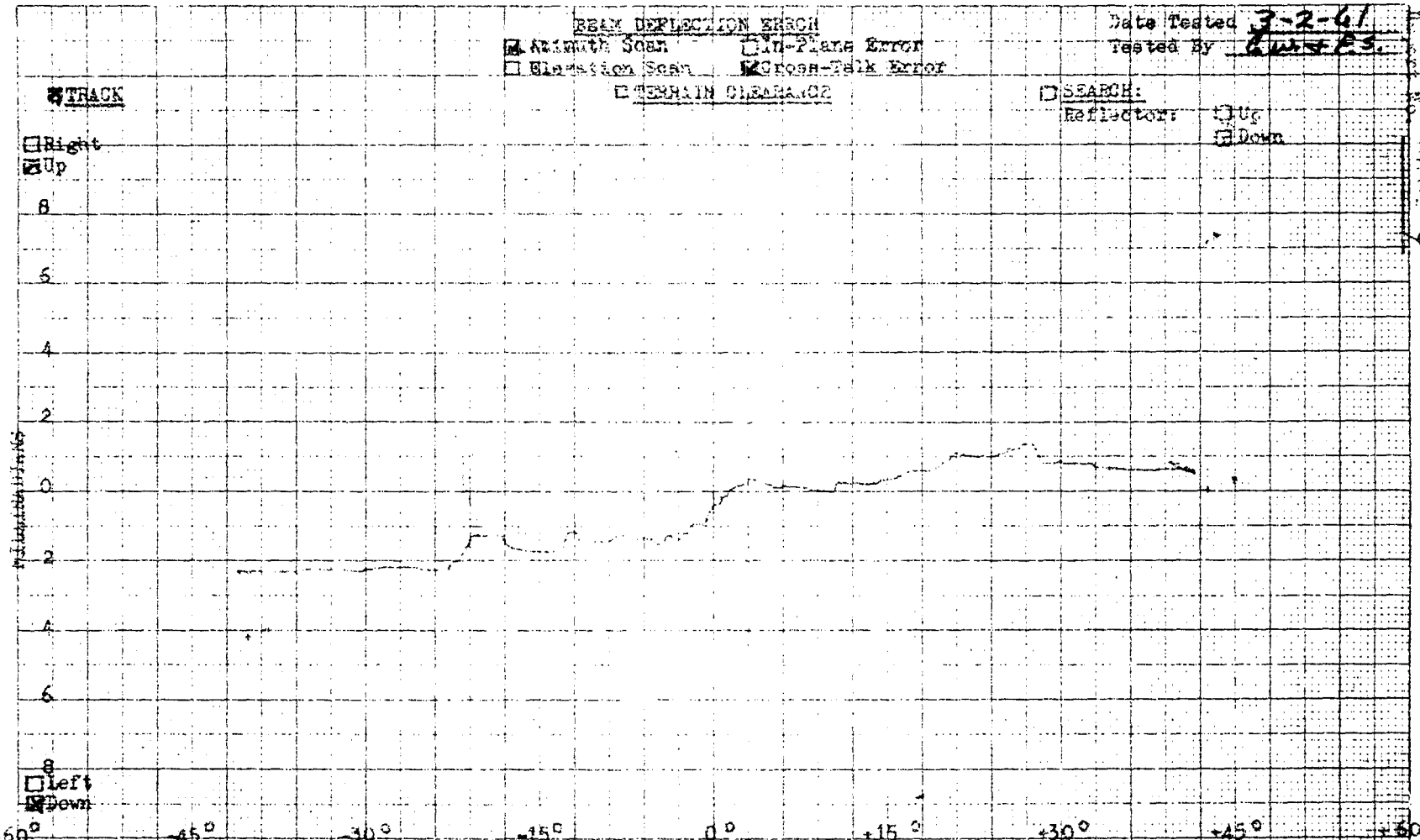
☐ SEARCH:

Reflector: ☐ Up ☒ Down

☒ TRACK

☐ Right

☒ Up



☐ Left

☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5.4 KMC

HORIZONTAL POLARIZATION

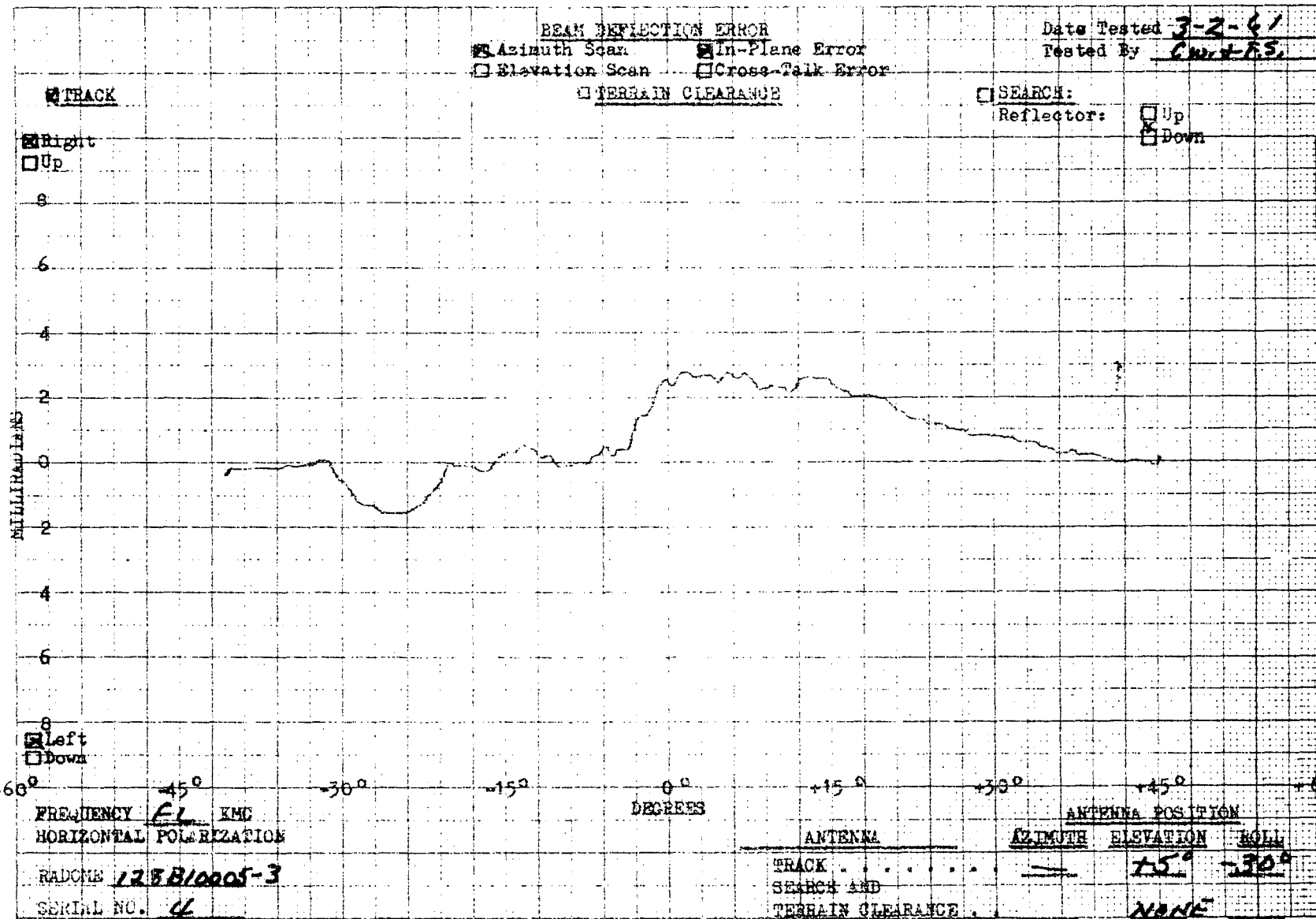
RADOME 128B10005-3

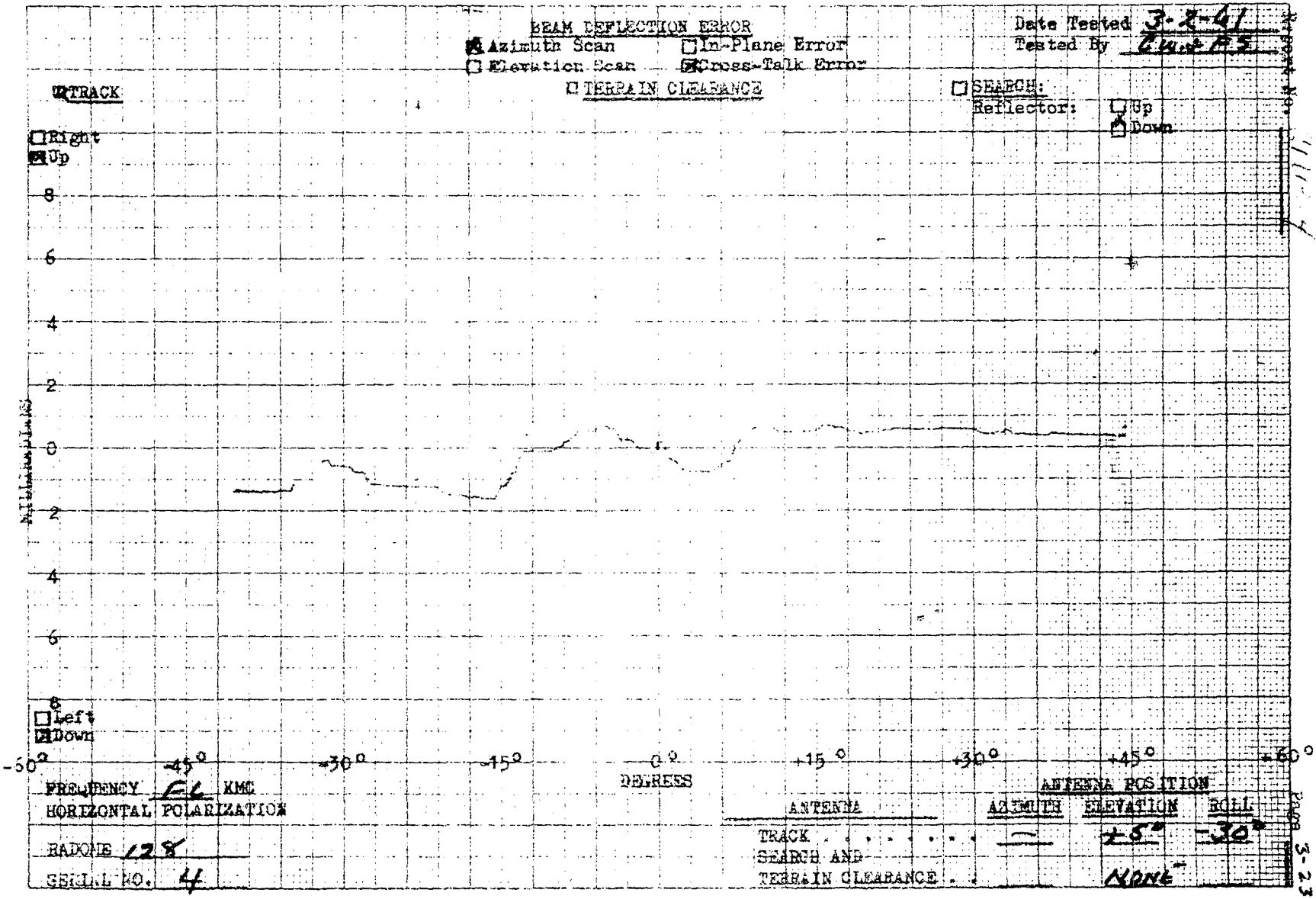
SERIAL NO. 4

ANTENNA	AZIMUTH	ANTENNA POSITION ELEVATION	ROLL
TRACK	—	+10°	-32°
SEARCH AND TERRAIN CLEARANCE	—	NONE	

Test No. 4

Power 3-237


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By C.W.T.-E.S.
TRACK
SEARCH:
Reflector: Up Down
Right
Up
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6L KMC
HORIZONTAL POLARIZATION
RADOME 125B10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+5° -30°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By C.W. & E.S.
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY 6.6 KMC
HORIZONTAL POLARIZATION
RADOME 128
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
+5°
-30°
NONE
3-239

BEAM DEFLECTION ERROR

Date Tested 2-17-61

Tested By GU & F-S

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

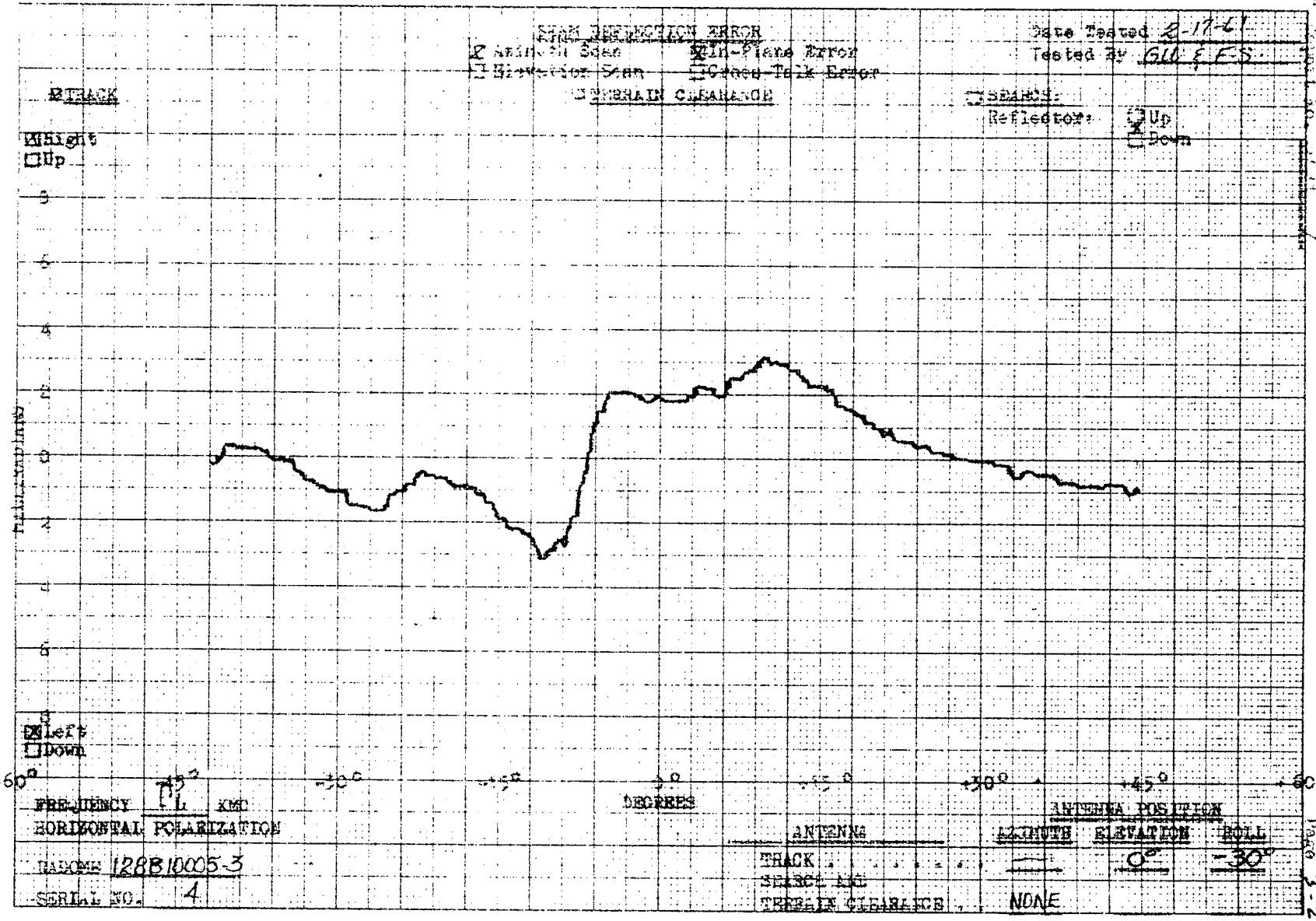
☐ TERRAIN CLEARANCE

☒ TRACK ☐ SEARCH:

Reflector: ☒ Up ☐ Down

☒ Right

☐ Up



☒ Left

☐ Down

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	——	0°	-30°
SEARCH			
TERRAIN CLEARANCE	NONE		

RADOME 128B10005-3

SERIAL NO. 4

Page 3-240

BEAM DEFLECTION ERROR

X Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☐ Cross-Tilt Error

☐ TERRAIN CLEARANCE

Date Tested 2-17-61

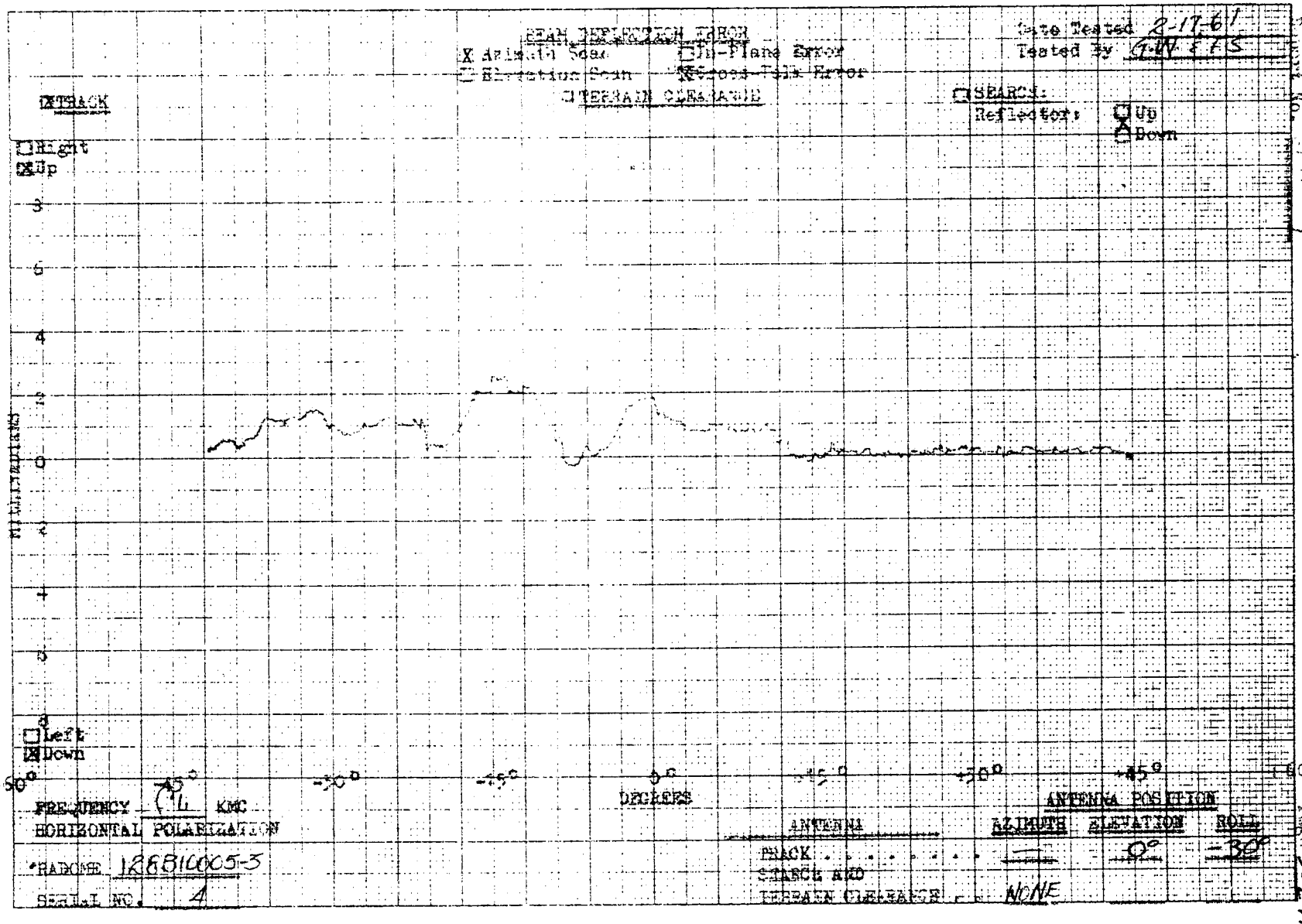
Tested By G.W. FFS

☐ TRACK

☐ Right

☒ Up

☐ SEARCH: Reflector: ☐ Up ☒ Down



☐ Left

☒ Down

FREQUENCY 7.1 KMC

HORIZONTAL POLARIZATION

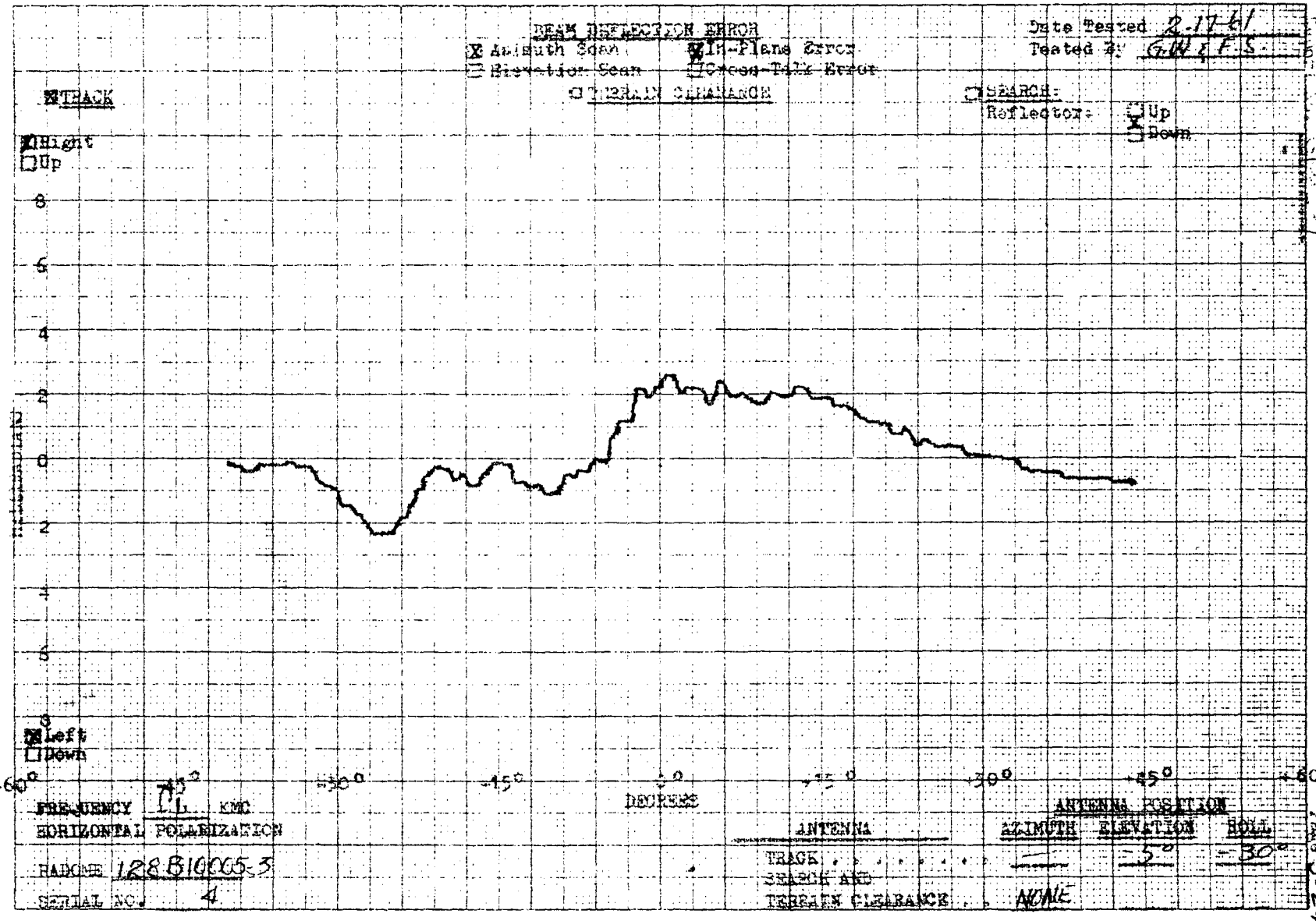
RADOME 12681C005-3

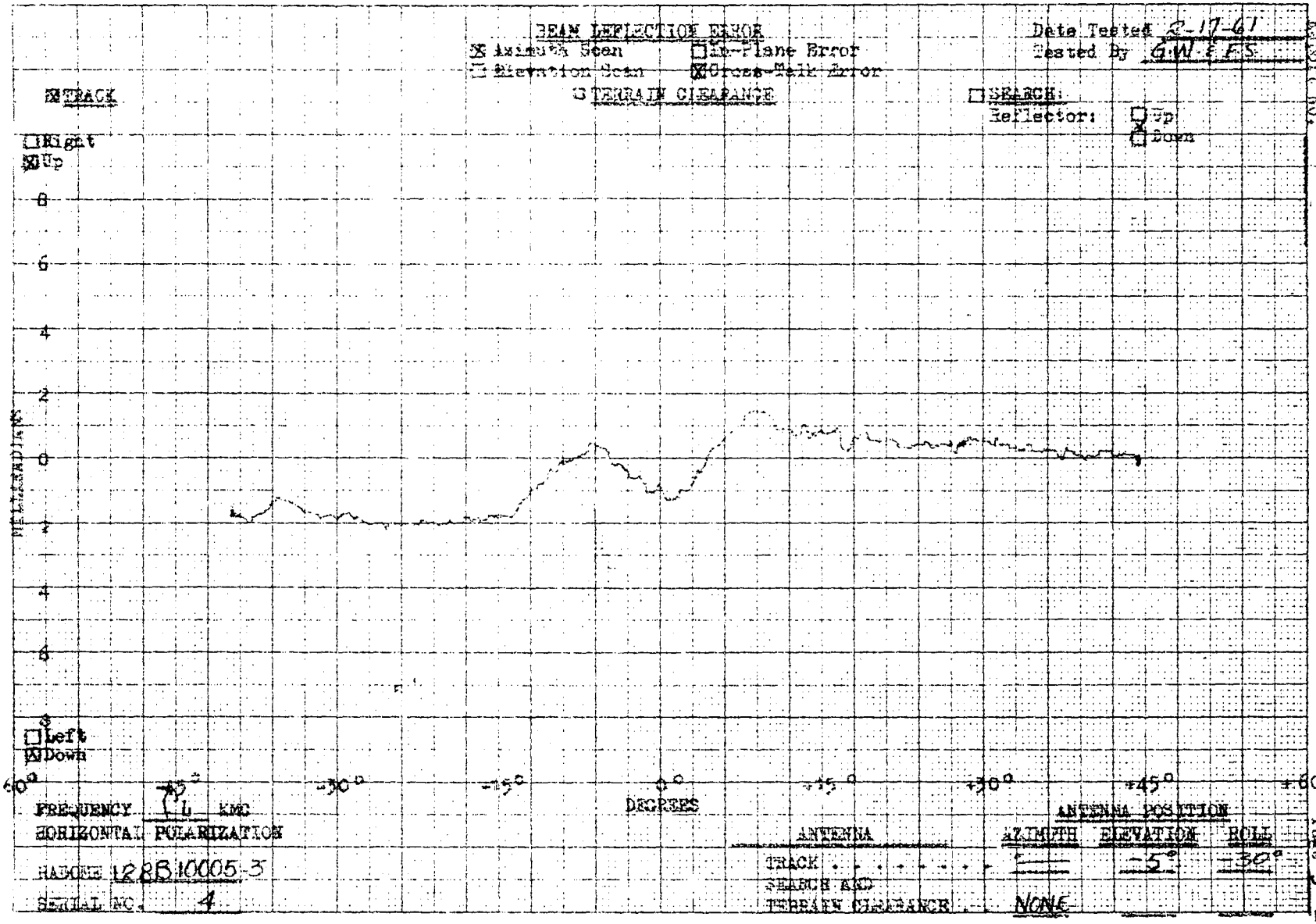
SERIAL NO. 4

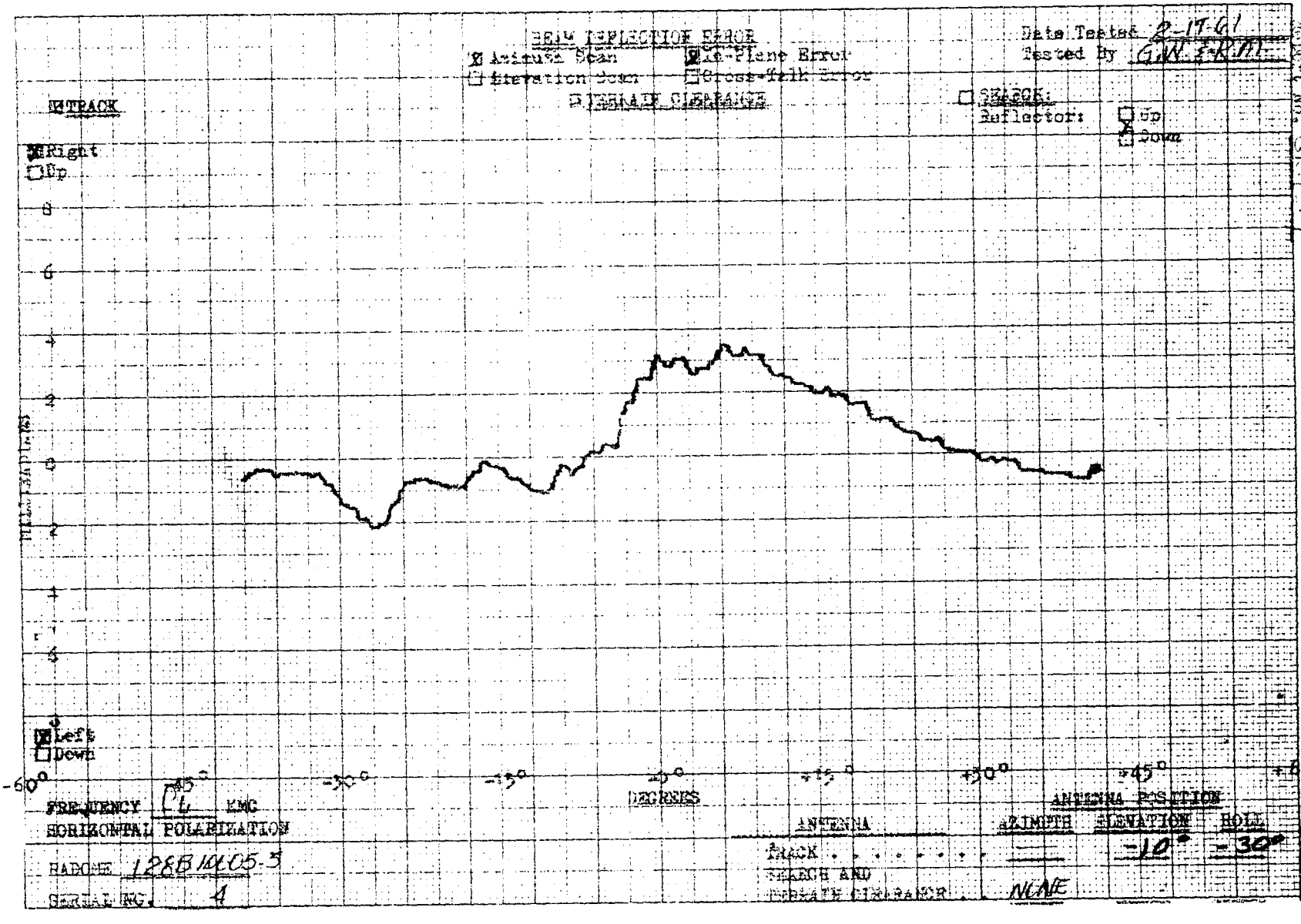
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	0°	-30°
SEARCH AND TERRAIN CLEARANCE	NONE		

Page 3-241


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-17-61
Tested By GW & FS
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 7.1 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ARIAE
-5°
-30°


BEAM DEFLECTION ERROR
Date Tested 2-17-61
Tested By G.W. & F.S.
☒ Azimuth Scan
☐ Elevation Scan
☐ X-Plane Error
☒ Cross-Talk Error
☐ TERRAIN CLEARANCE
☒ TRACK
☐ SEARCH
Reflector: ☐ Up ☐ Down
☐ Right
☒ Up
MILLIRADIANS
8
6
4
2
0
4
6
8
☐ Left
☒ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 11.4 KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
-5°
-30°
SEARCH AND TERRAIN CLEARANCE
NONE
HARNESS 12BB10005-3
SERIAL NO. 4


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TRACK
Right
Up
Left
Down
SEARCH
Reflector:
Up
Down
Date Tested 2-17-61
Tested By G.W. Kohl
Report No. CL-1
DEGREES
FREQUENCY CL MC
HORIZONTAL POLARIZATION
RADOME 128B1405-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-10° -30°
TRACK
SEARCH AND
NONE
Page 3-244

BEAM DEFLECTION ERROR:

☒ Azimuth Scan ☐ E-Plane Error

☐ Elevation Beam ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

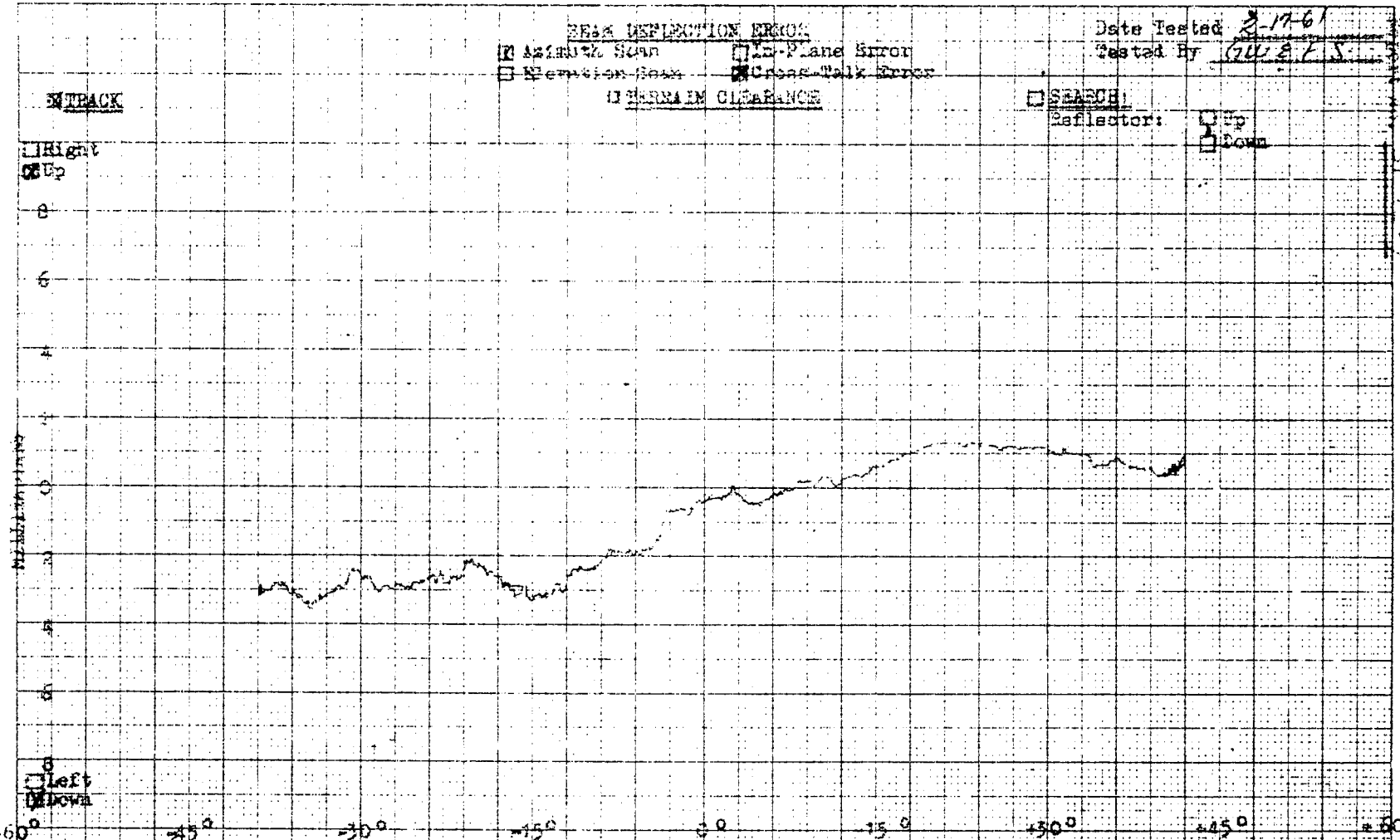
Date Tested 2-17-61

Tested By GW & E.S.

☒ TRACK ☐ SEARCH

Reflector: ☐ Up ☒ Down

☐ Right
☒ Up



☐ Left
☒ Down

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

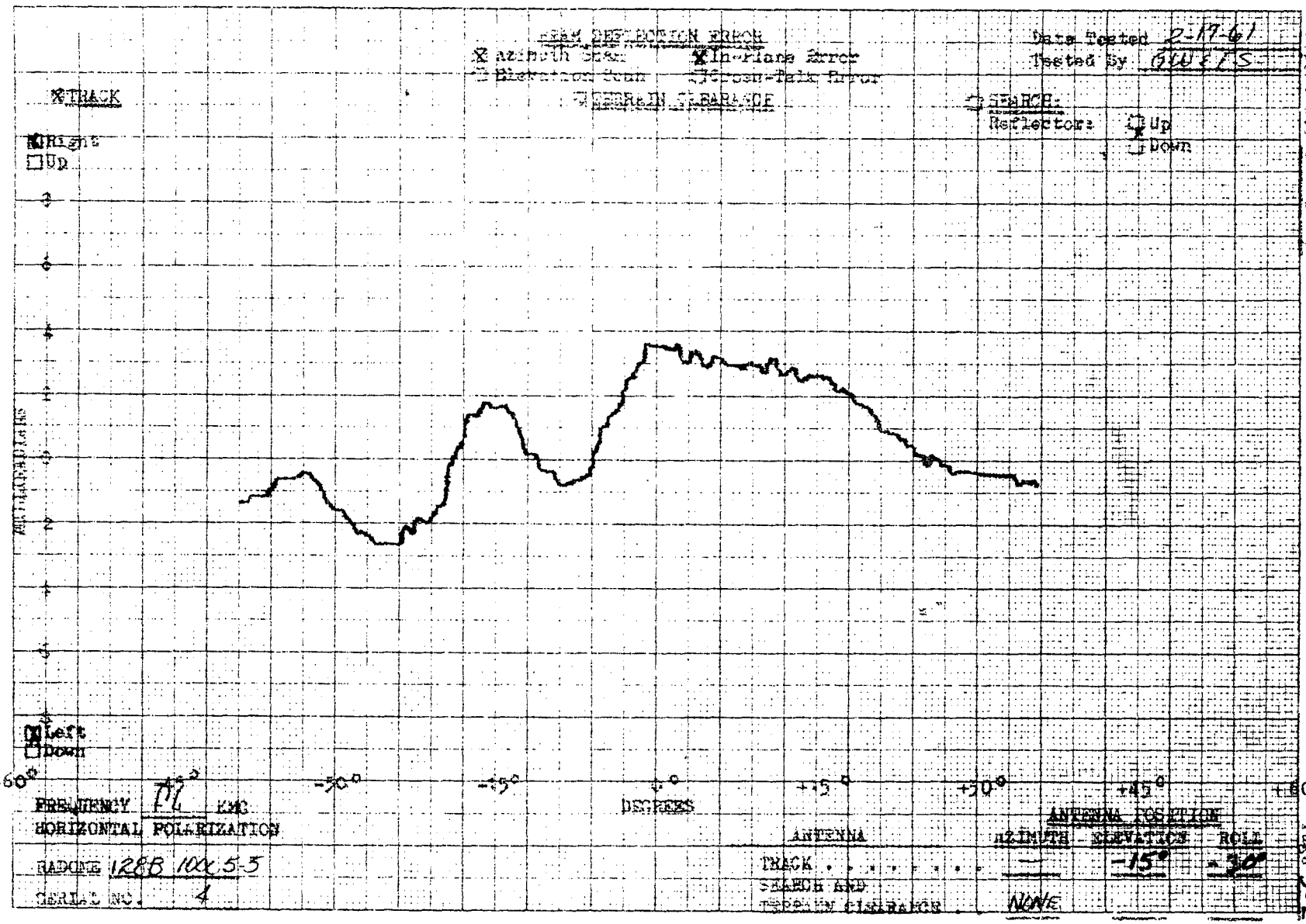
RADOME 128B 10005-3

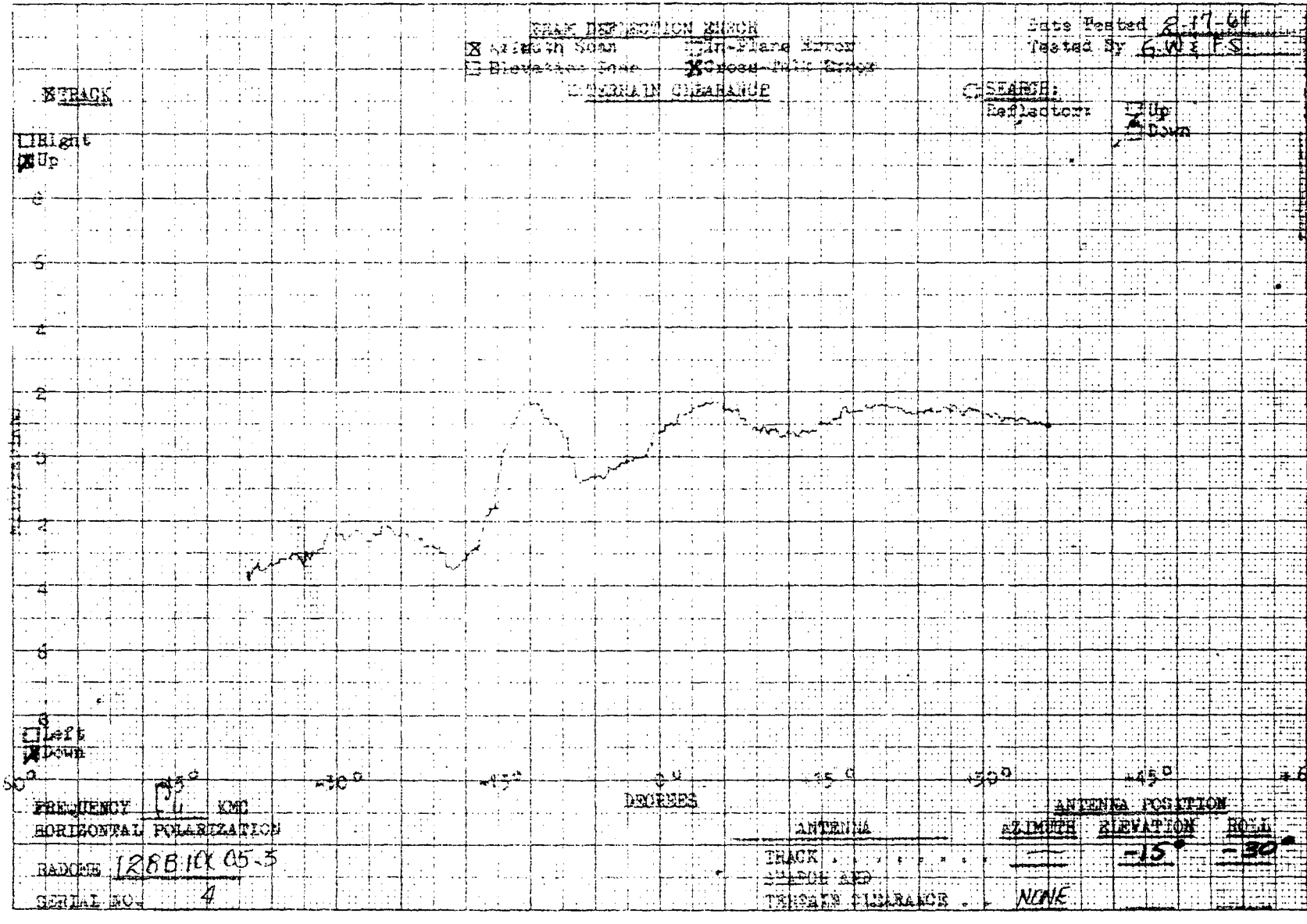
SERIAL NO. 4

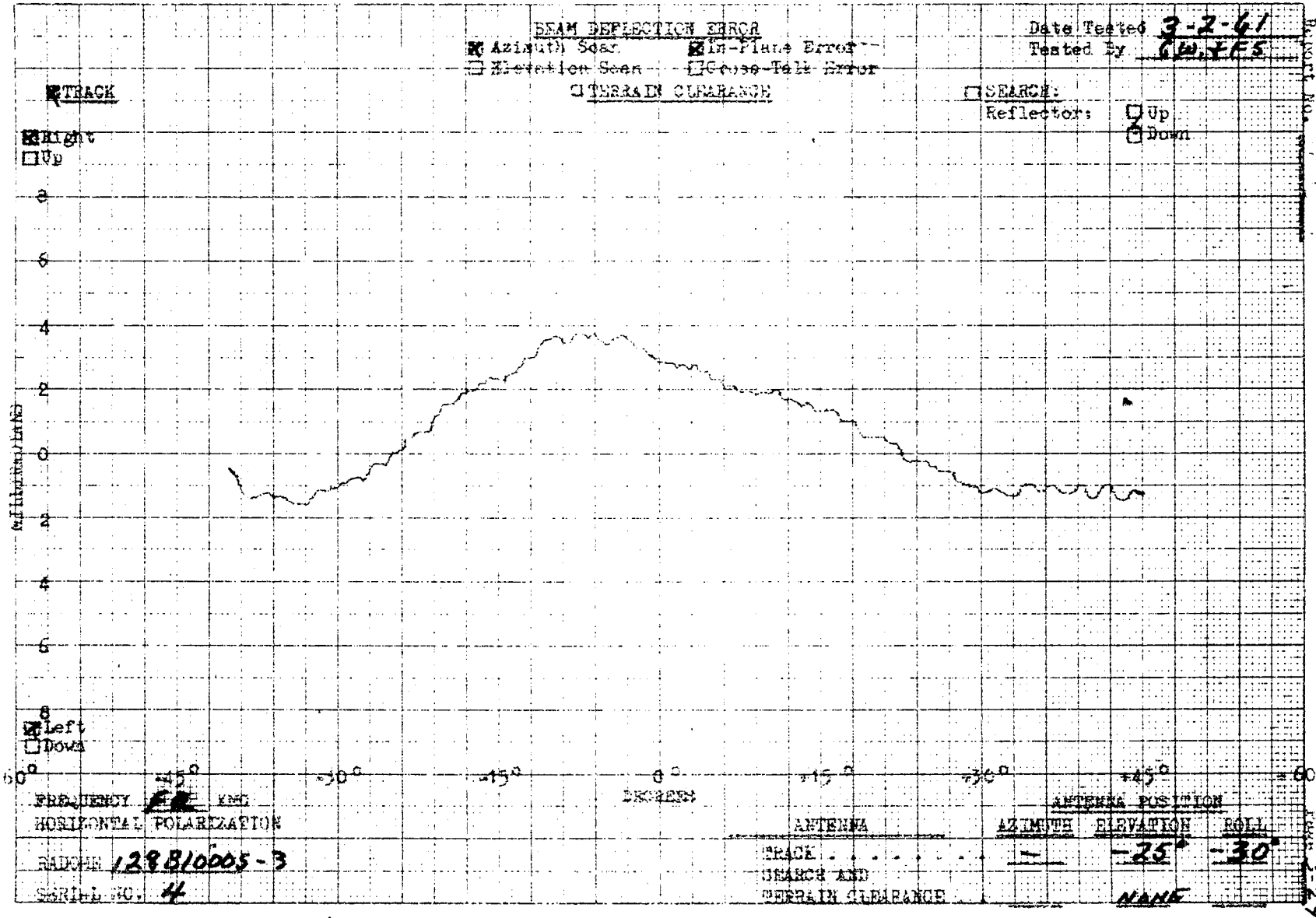
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-10°	-30°
SPACE AND TERRAIN CLEARANCE	NONE		

Page 5-245


Data Tested 2-17-61
Tested By GUEST
TRACK
Right
Up
Left
Down
-60°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY 4.5 KMC
HORIZONTAL POLARIZATION
RADOME 128B 100x55
SERIAL NO. 1
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK — -15° -30°
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Plane Error
TERRAIN CLEARANCE
Date Tested 8-17-64
Tested By G.W.E.S.
TRACK
SEARCH:
Deflection: Up Down
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
-15°
-30°
SLEEVE AND
THROATS CLEARANCE
NONE


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Tale Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By GW, FES
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6 KMC
HORIZONTAL POLARIZATION
RADOME 1288/0005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
-25°
-30°
NONE

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ H-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 3-2-61

Tested By GW, HES

☒ TRACK

☐ SEARCH:

Reflector: ☐ Up ☒ Down

☐ Right
☒ Up

8
6
4
2
0
2
4
6
8

MILLIRADIANS

☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 6.4 KMC
HORIZONTAL POLARIZATION

KLYSTRON 1258/0005-3
SERIAL NO. 6

ANTENNA

TRACK
SEARCH AND
TERRAIN CLEARANCE

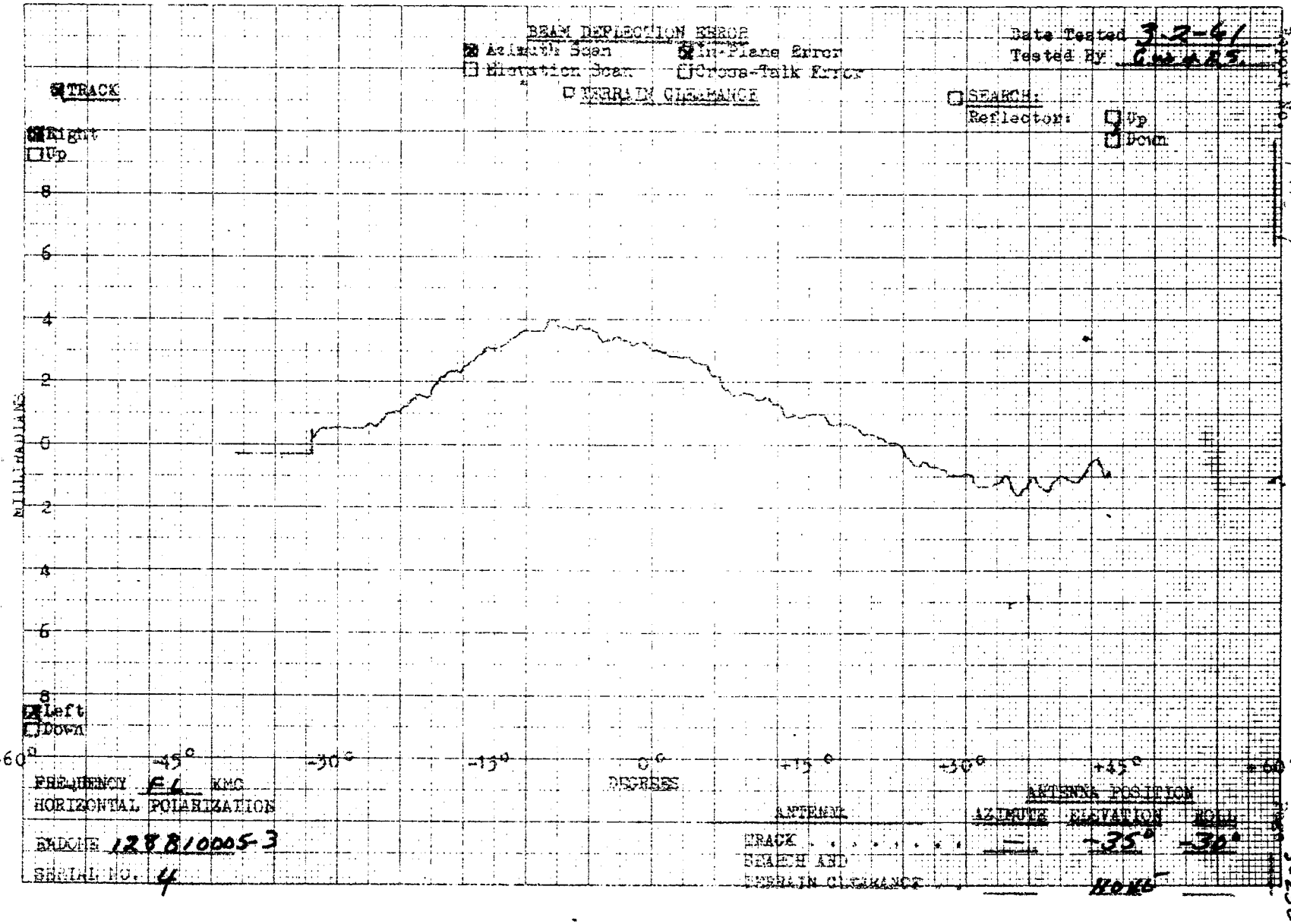
ANTENNA POSITION

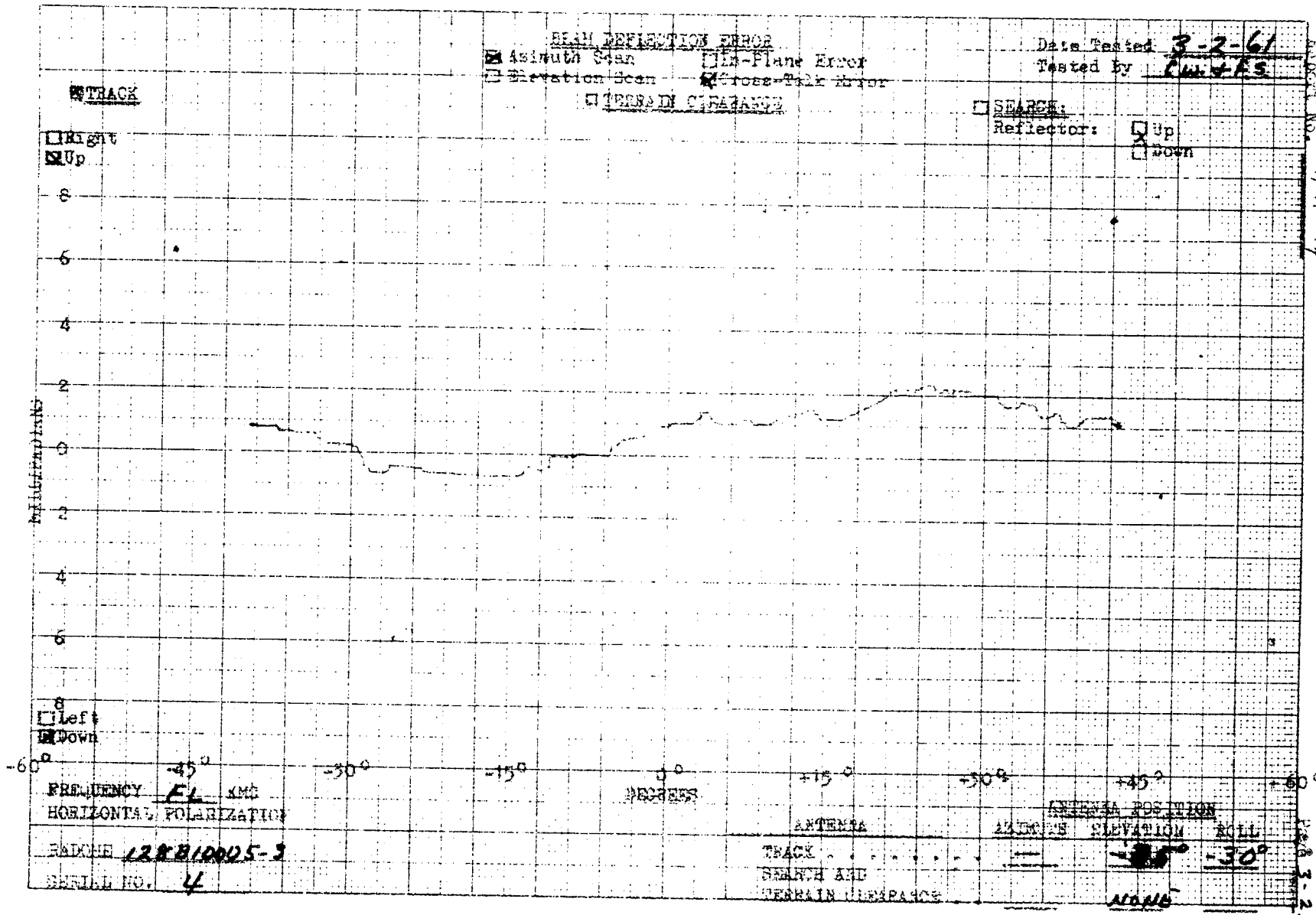
	AZIMUTH	ELEVATION	ROLL
	—	-25°	-30°

NONE

Klystron No. 1111

Page 3-249


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-3-61
Tested By C. W. & R. S.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6.4 KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
+35°
-30°
HORN
ENDOME 1288100005-3
SERIAL NO. 4
3-250


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
E-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested by F.W. & F.S.
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL MC
HORIZONTAL POLARIZATION
RADOME 128810005-3
SHELL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
-30°
NONE

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By C.W.S.E.S.

Report No.

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

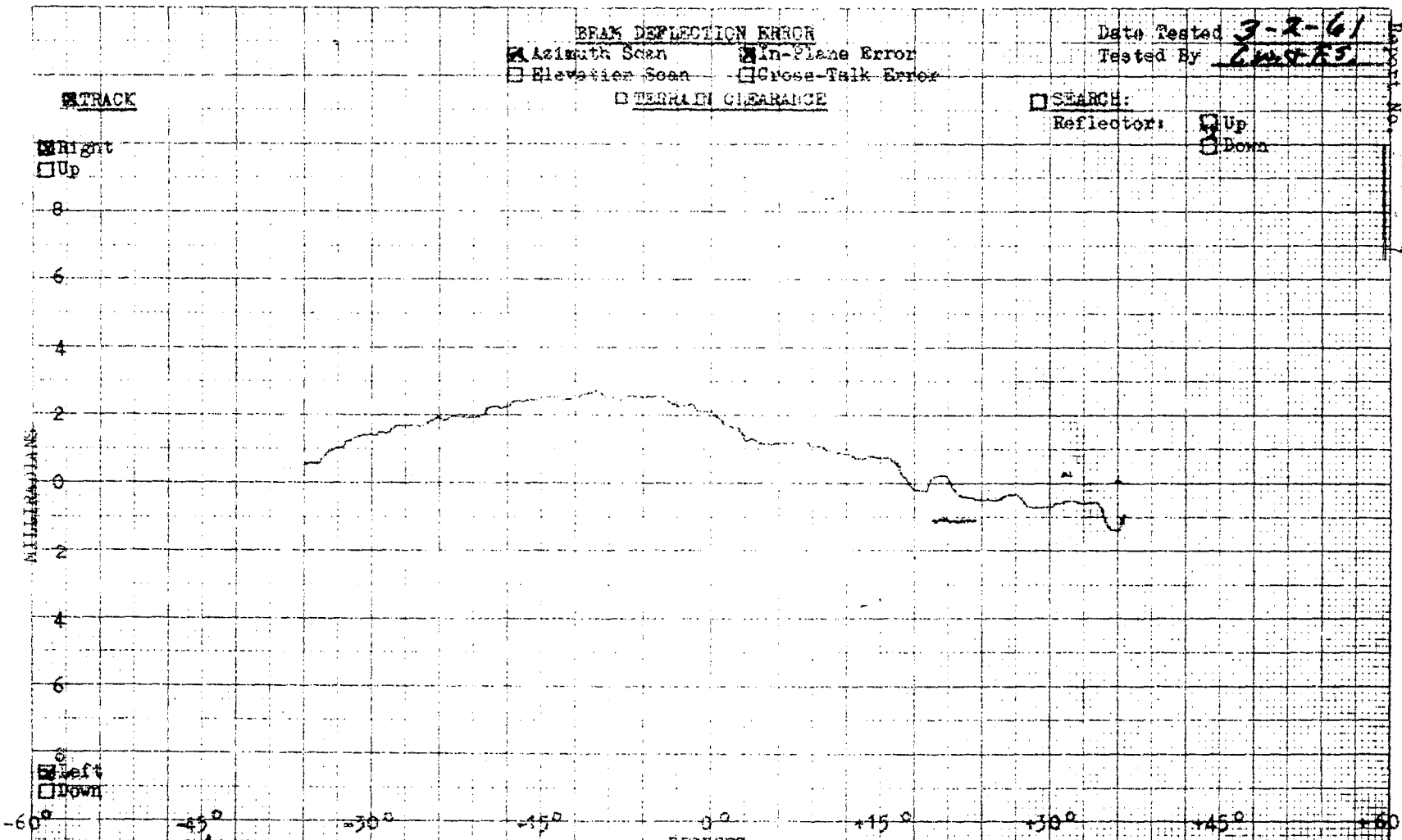
☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



FREQUENCY 16 KMC

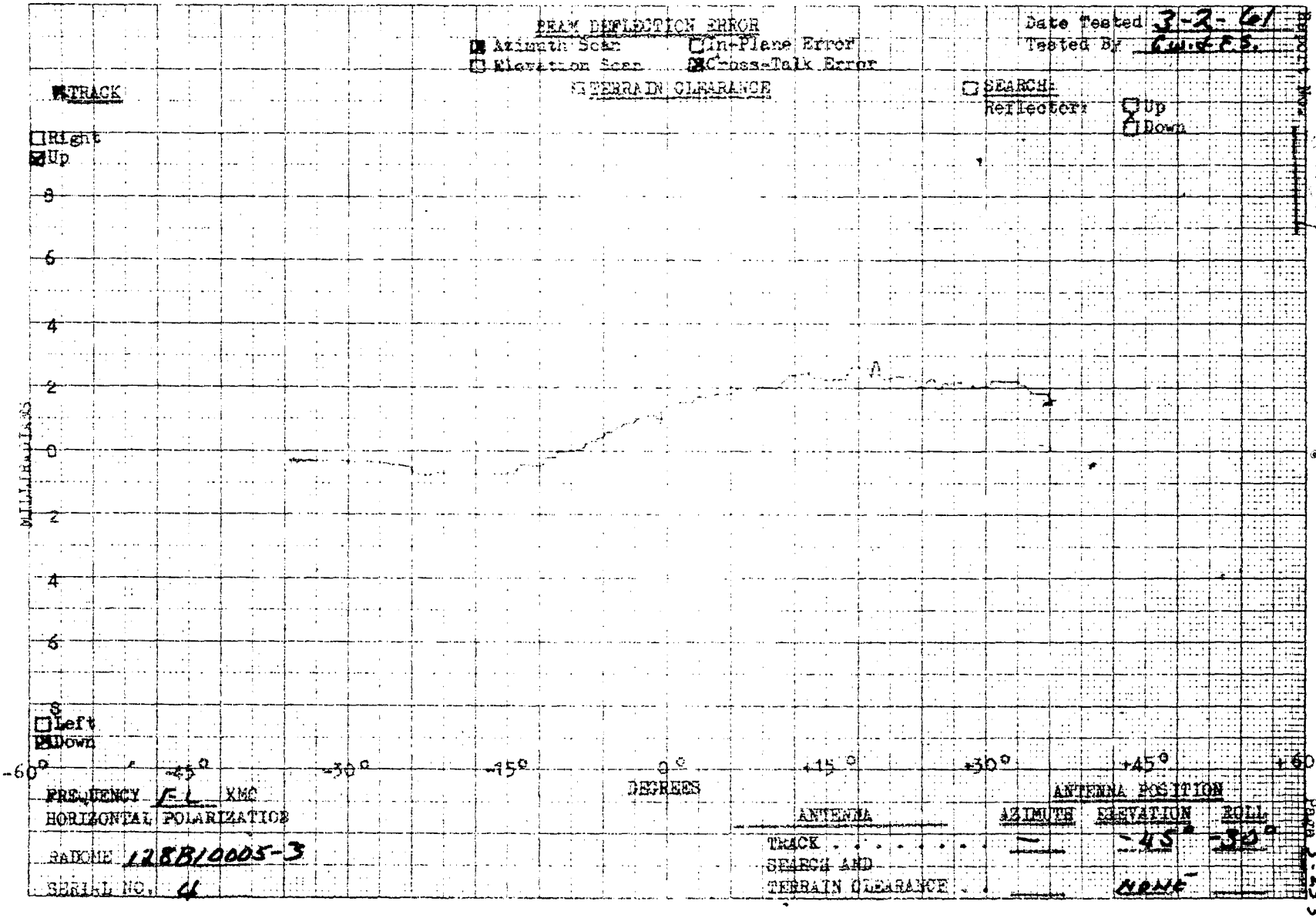
HORIZONTAL POLARIZATION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-45°	-30°
SEARCH AND TERRAIN CLEARANCE		NONE	

NA DWG 128B10005-3

SERIAL NO. 4

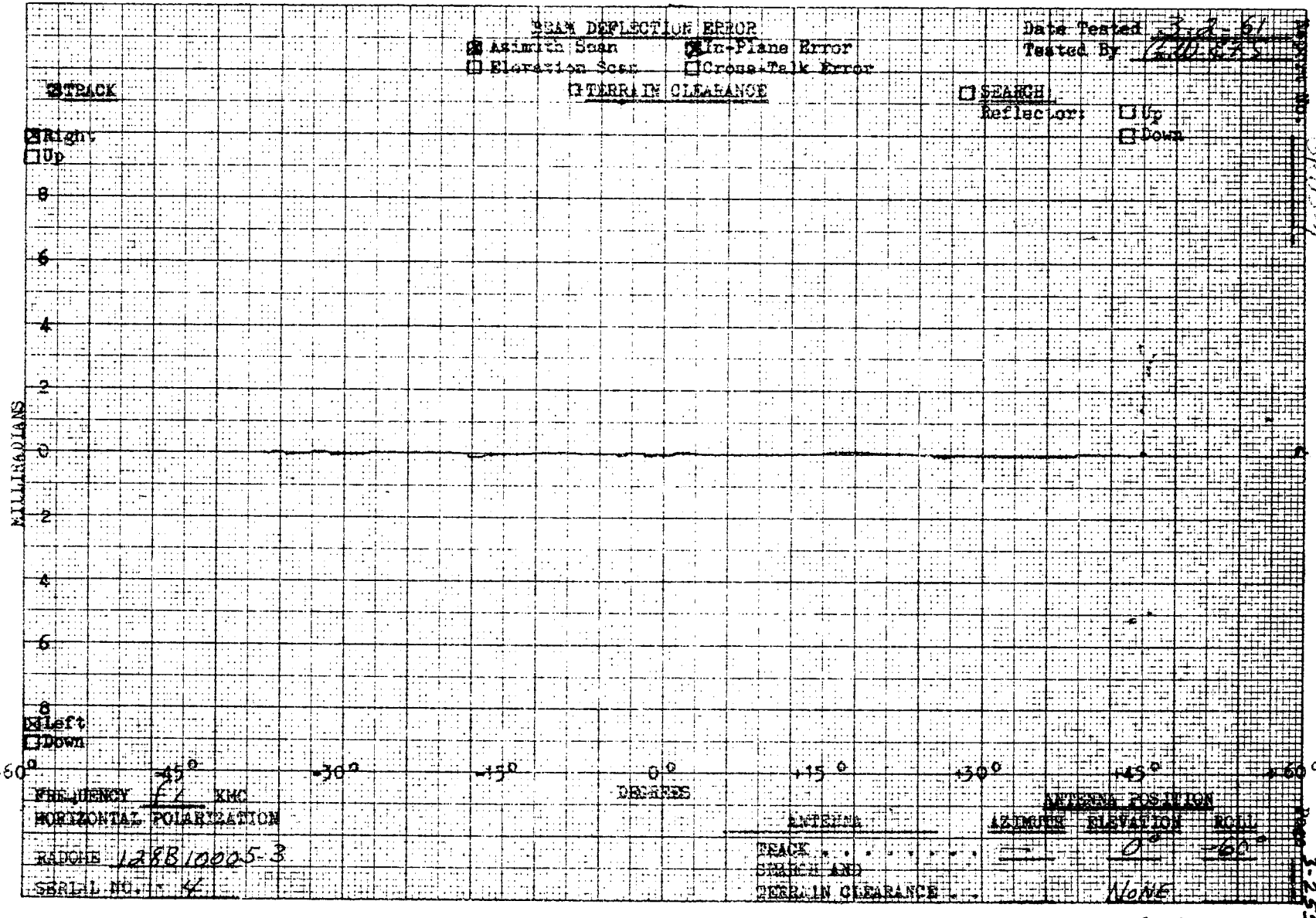
Page 3-252

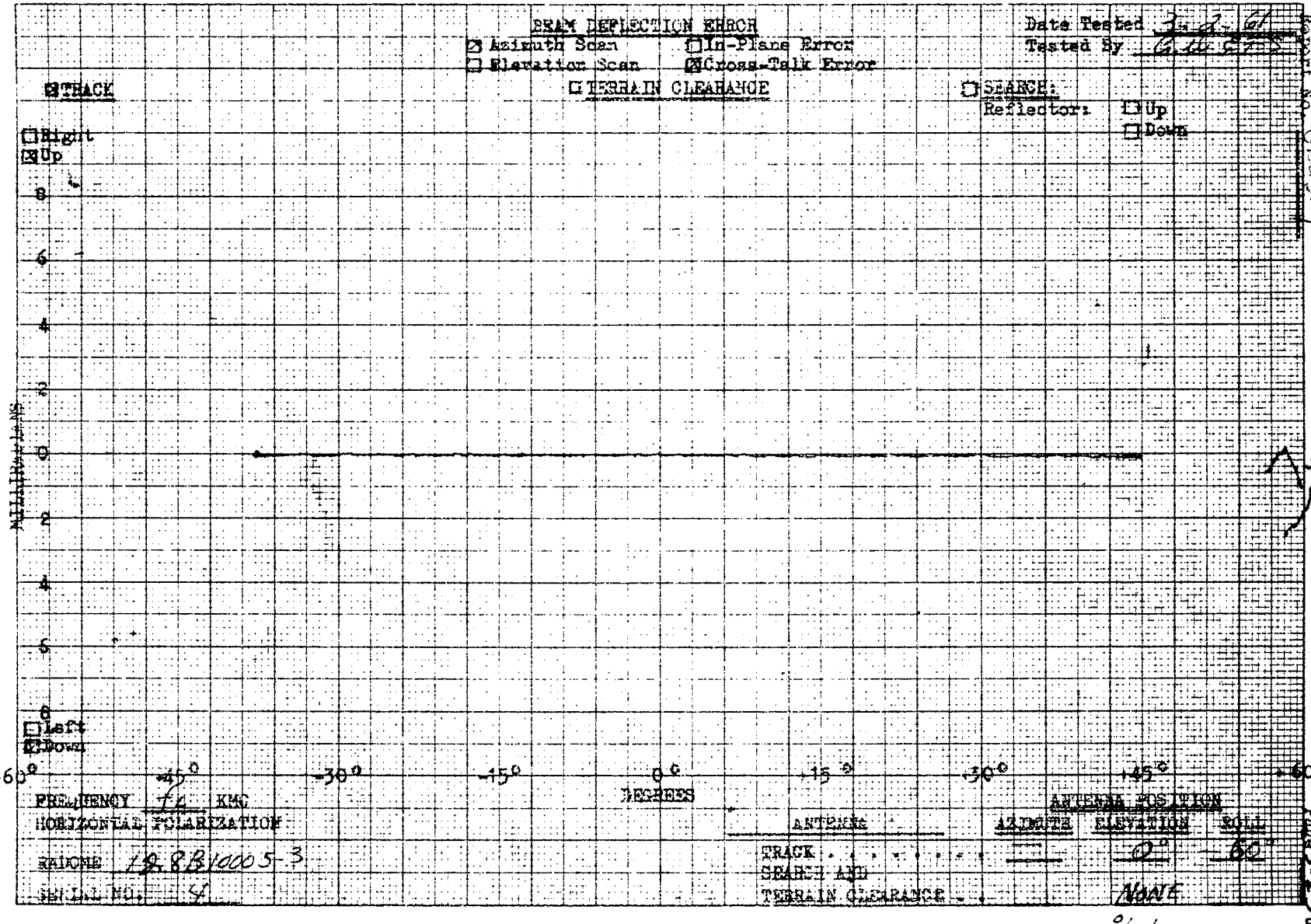

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
Date Tested 3-2-61
Tested By C.W. & E.S.
TERRAIN CLEARANCE
TRACK
Right
Up
SEARCH
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 XMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
-45°
-30°
NONE
3-253

SECTION 40

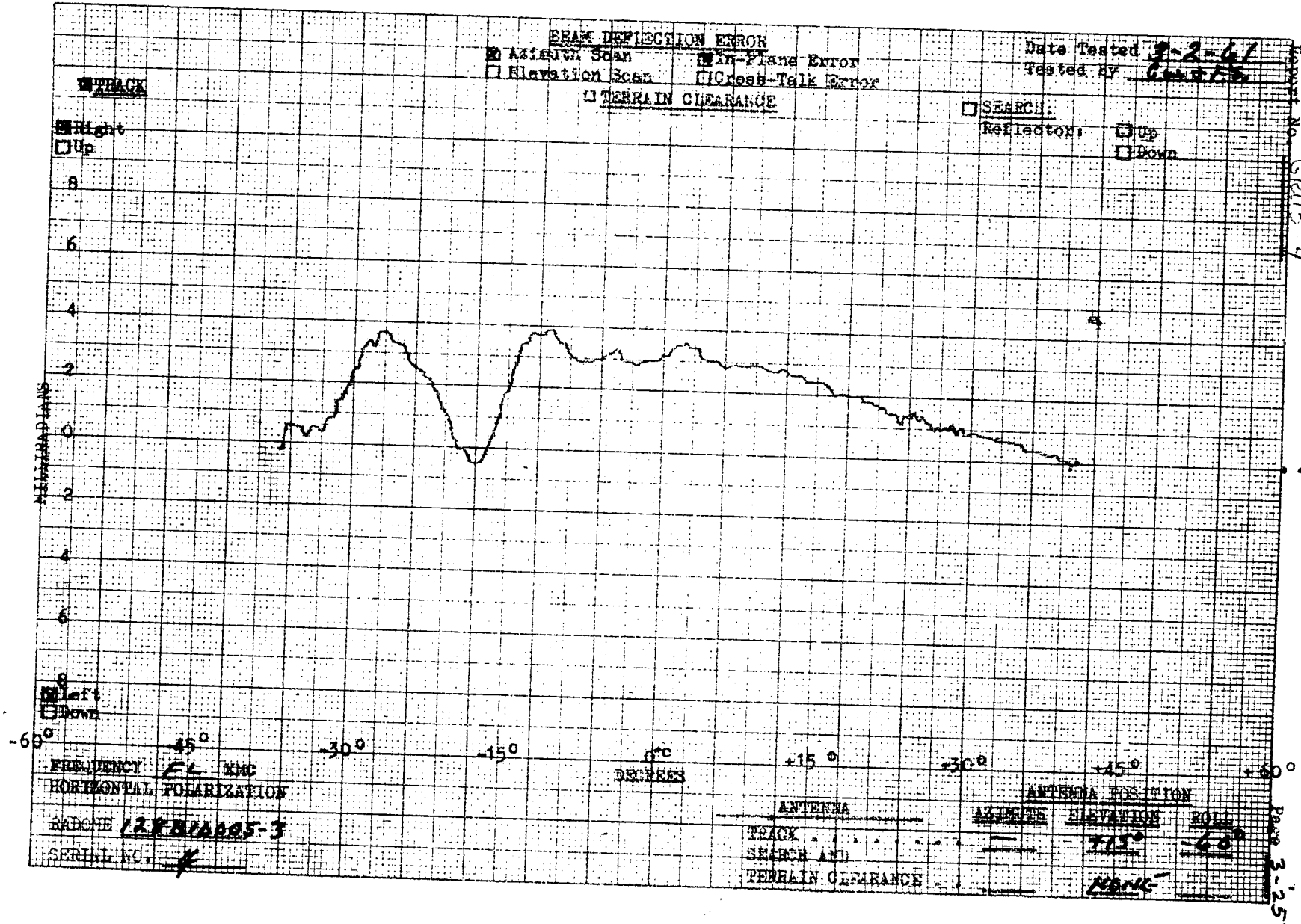
TRACK BORESIGHT ERROR

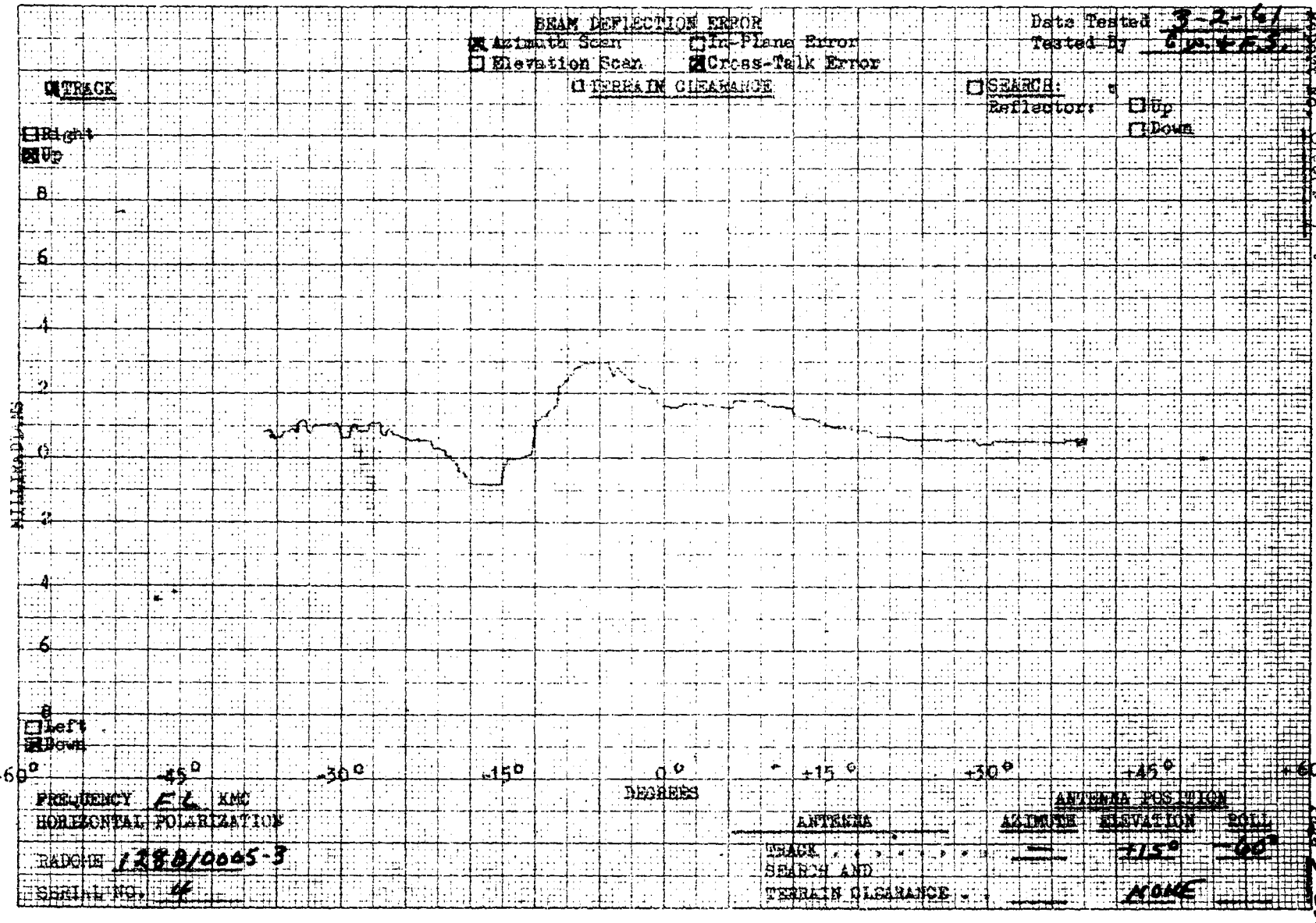
F_L @ -60° ROLL

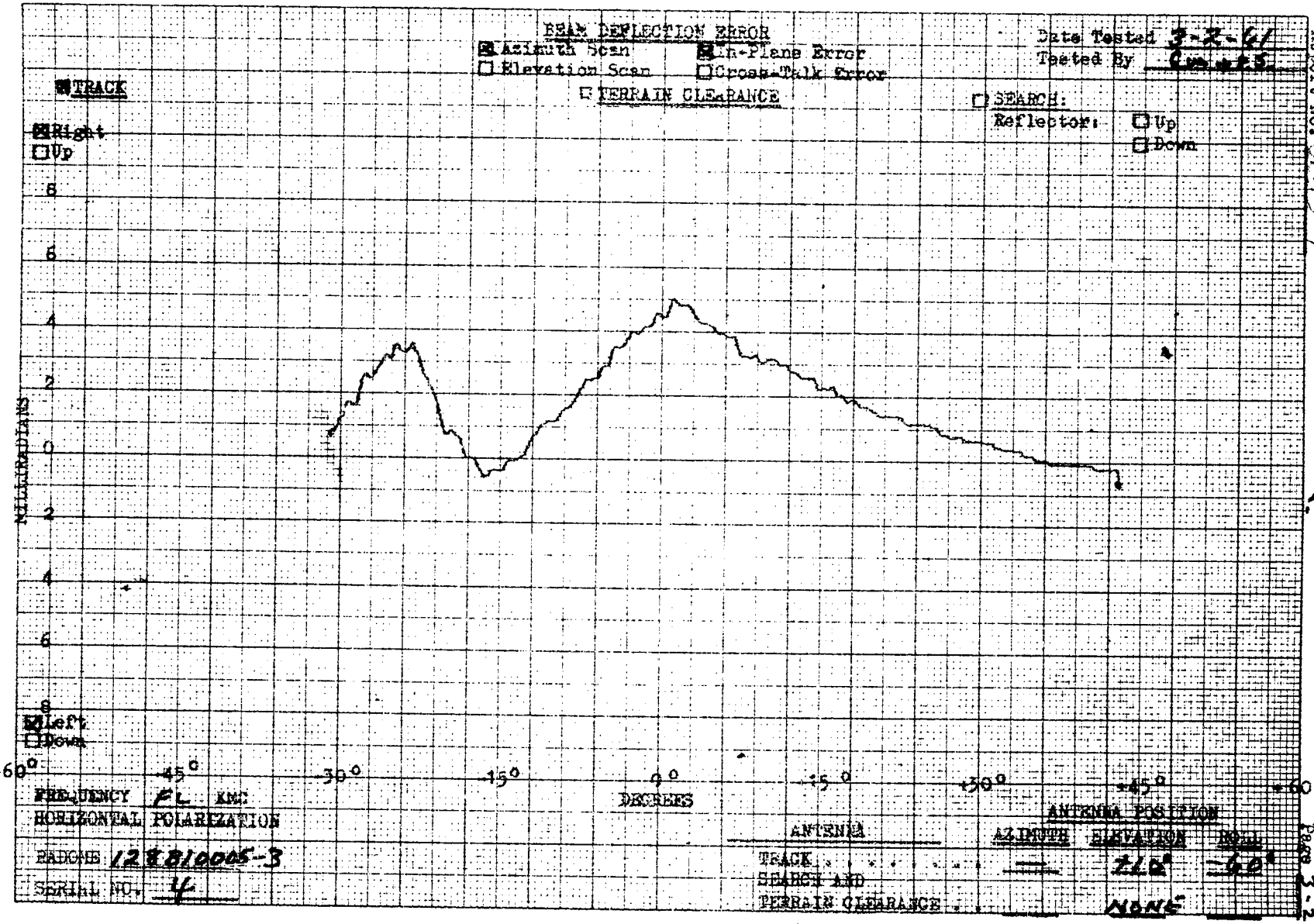

SCAN DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-1-61
Tested By
TRACK
Right
Up
SEARCH
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 7 KMC
HORIZONTAL POLARIZATION
RADOME 1288100053
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERR. IN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
0° -60°
NONE
100 % LEVEL


PRAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
SEARCH:
Reflector: Up
Down
Date Tested
Tested By
TRACK
Right
Up
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY KMC
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
-60°
NONE
100 % LEVEL

K&E 10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.




BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By G.W. ERB.
TRACK
SEARCH:
Reflector:
Up
Down
Right
Up
Left
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.6 KMC
HORIZONTAL POLARIZATION
RADOME 1288/0005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
+15°
-60°
RADOME


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
H-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By
Report No.
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL KMC:
HORIZONTAL POLARIZATION
RADOME 1281B10005-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
Page 3-259

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By [illegible]

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☒ TRACK ☐ TERRAIN CLEARANCE ☐ SEARCH:

Reflector: ☐ Up ☐ Down

☐ Right
☒ Up

MILLIRADIANS

6
6
4
2
0
2
4
6
6

☐ Left
☒ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 6.4 KMC

HORIZONTAL POLARIZATION

RADOME 1288/10006-3

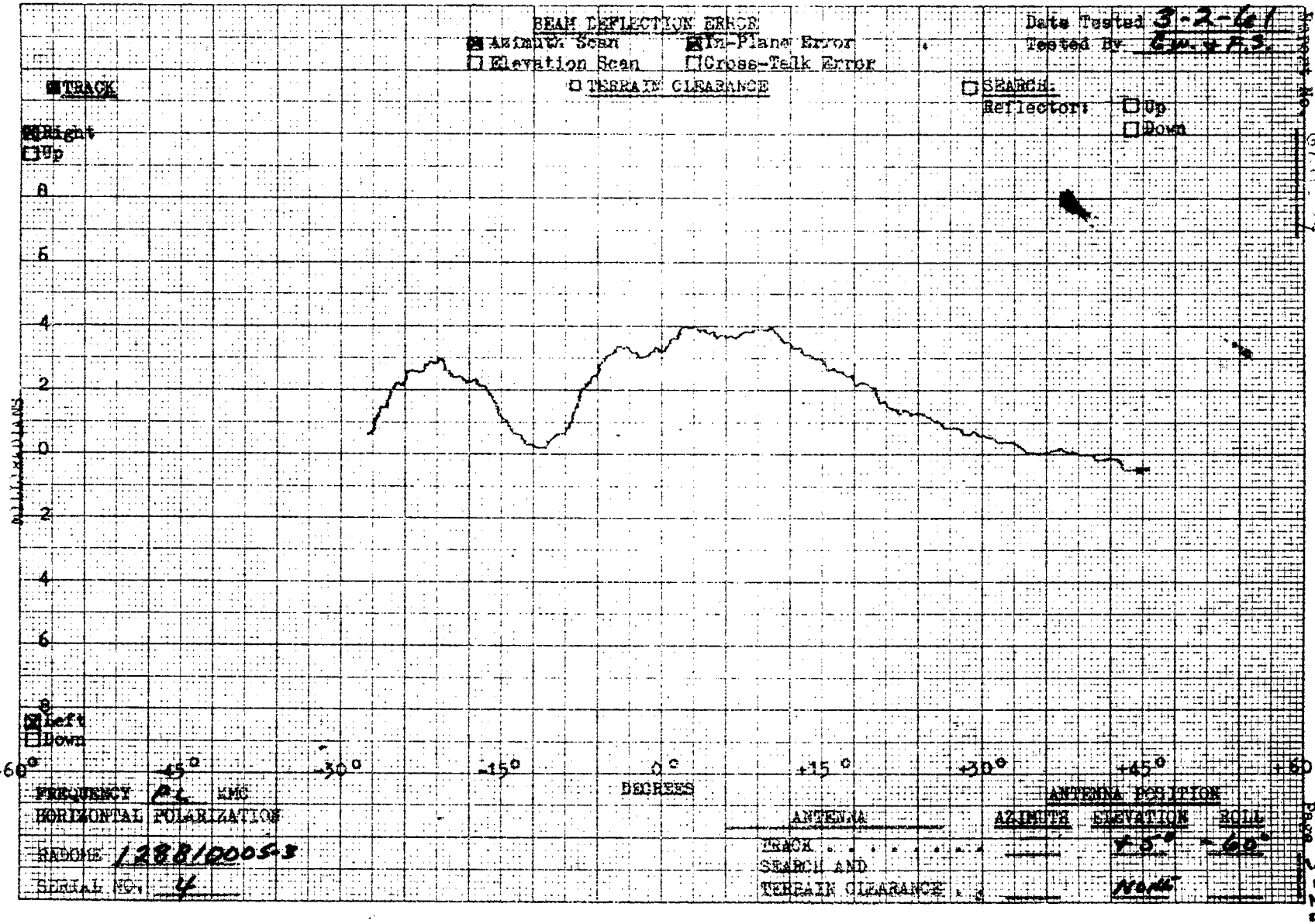
SERIAL NO. 4

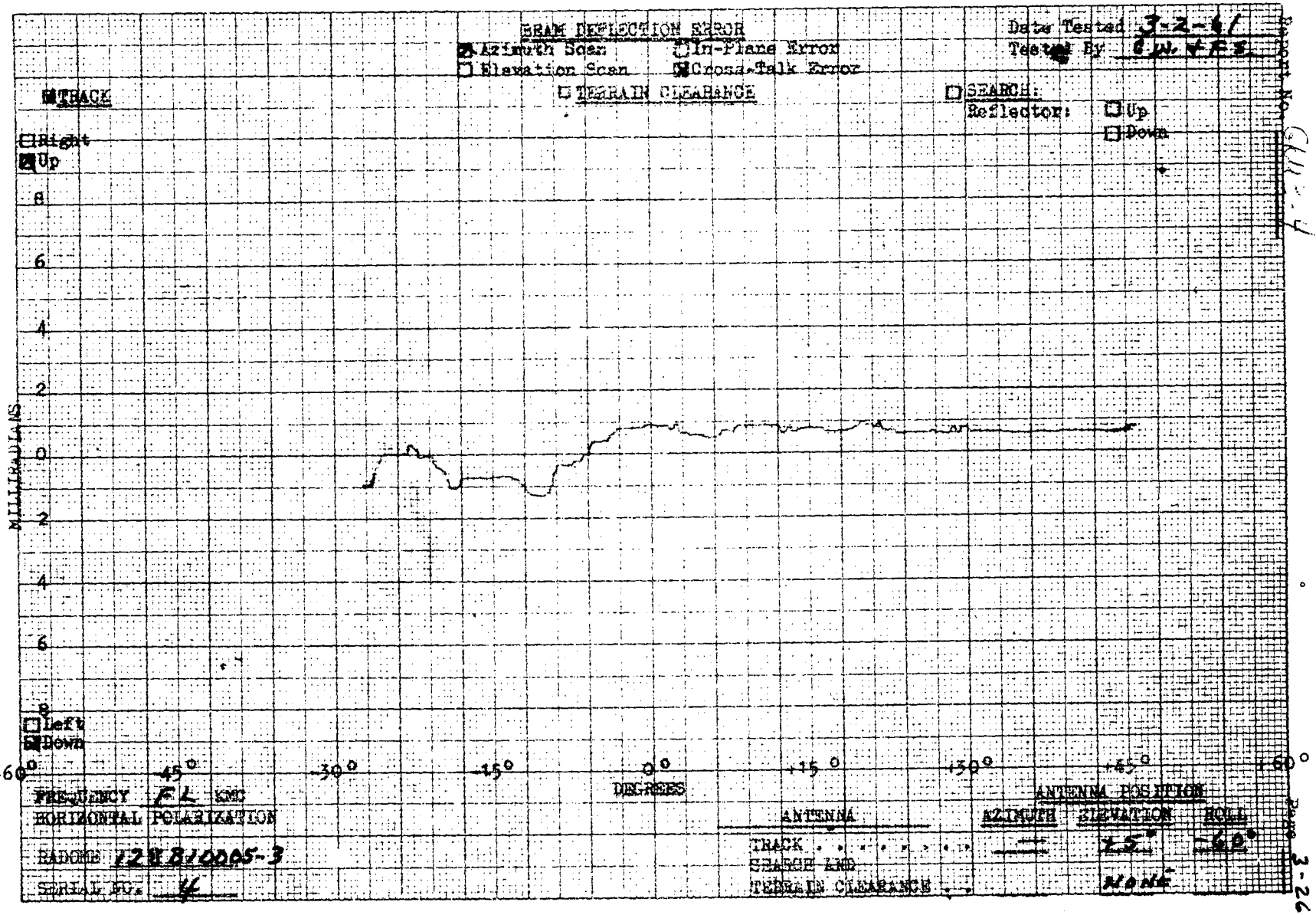
ANTENNA POSITION

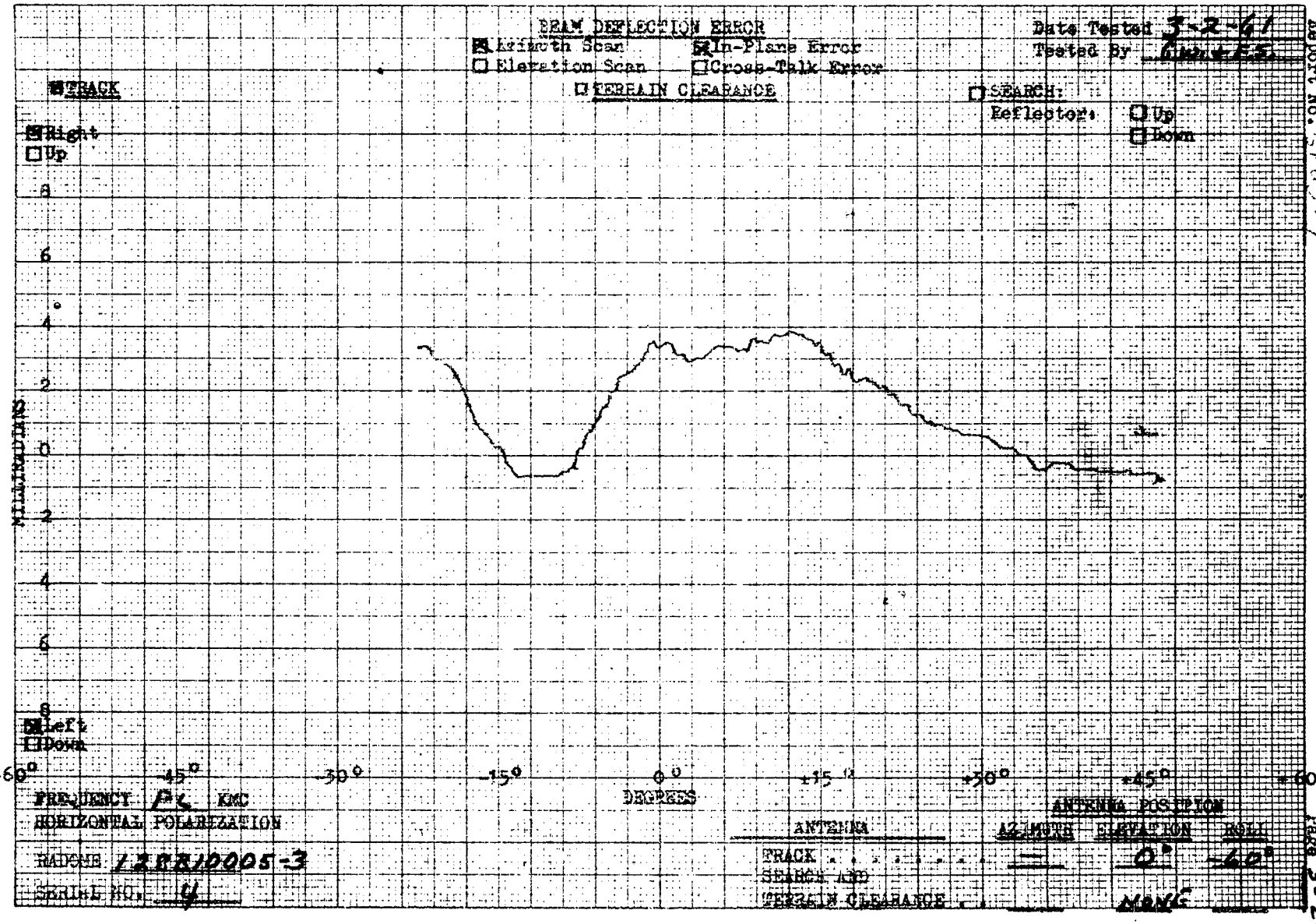
ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	+10°	-60°
SEARCH AND TERRAIN CLEARANCE		NONE	

Report No. 61-[illegible]

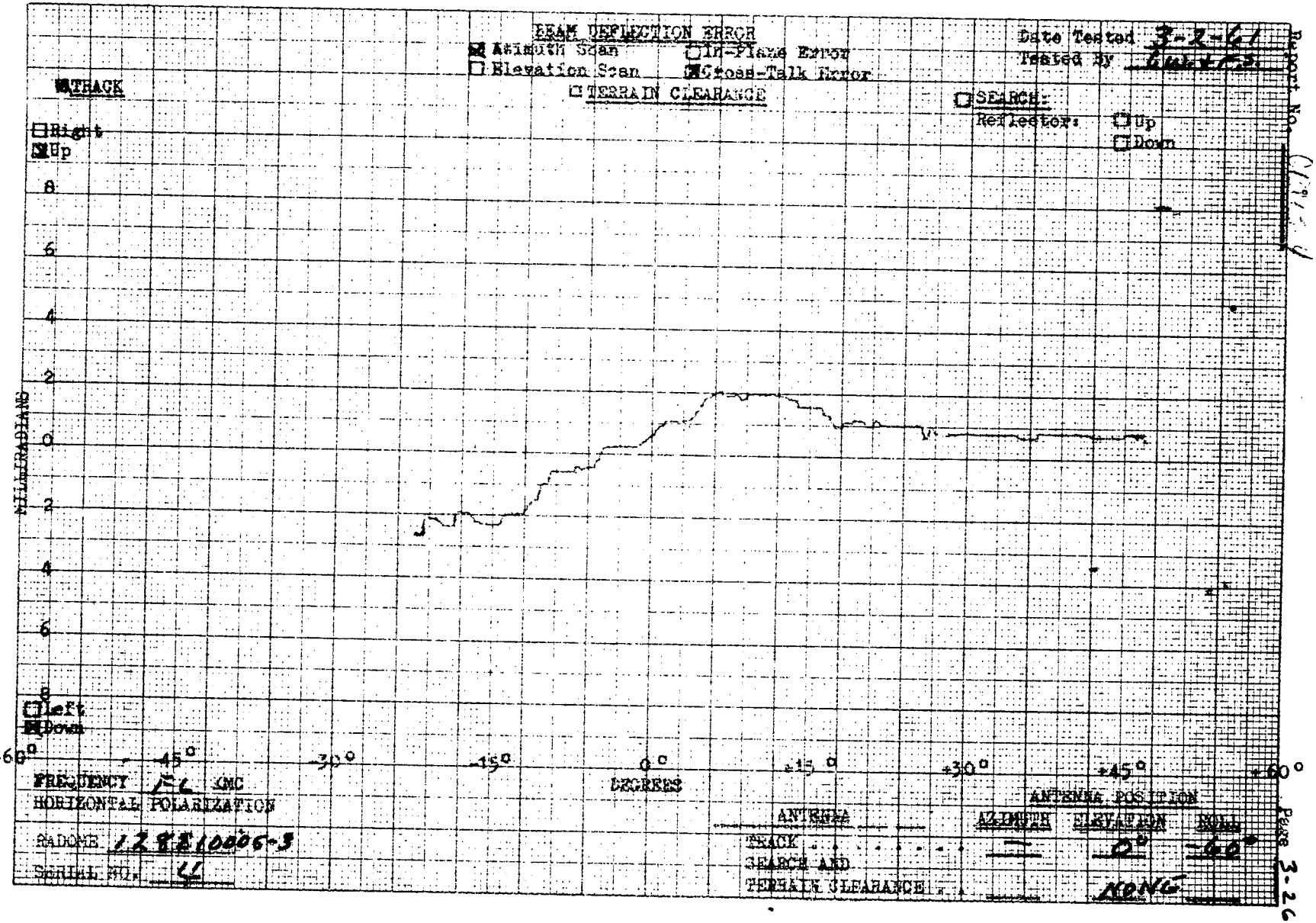
Page 3-260


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By E.P. & F.S.
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
MILLIRADIANS
FREQUENCY 6.2 KMC
HORIZONTAL POLARIZATION
RADOME 1288/0005-8
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
0°
-60°
North
Page 3-27


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By G.W. [illegible]
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 1288/0005-3
SERIAL NO. 44
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
0
+5°
-40°
NONE



Report No. 5111-1


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-64
Tested By Gaskell
Report No. 1111
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
DEFLECTION
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 15.2 KMC
HORIZONTAL POLARIZATION
RADOME 128E10006-3
SERIAL NO. 41
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA TRACK
SEARCH AND TERRAIN CLEARANCE
0°
-2°
-60°
NONE
Page 3-264

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By [illegible]

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

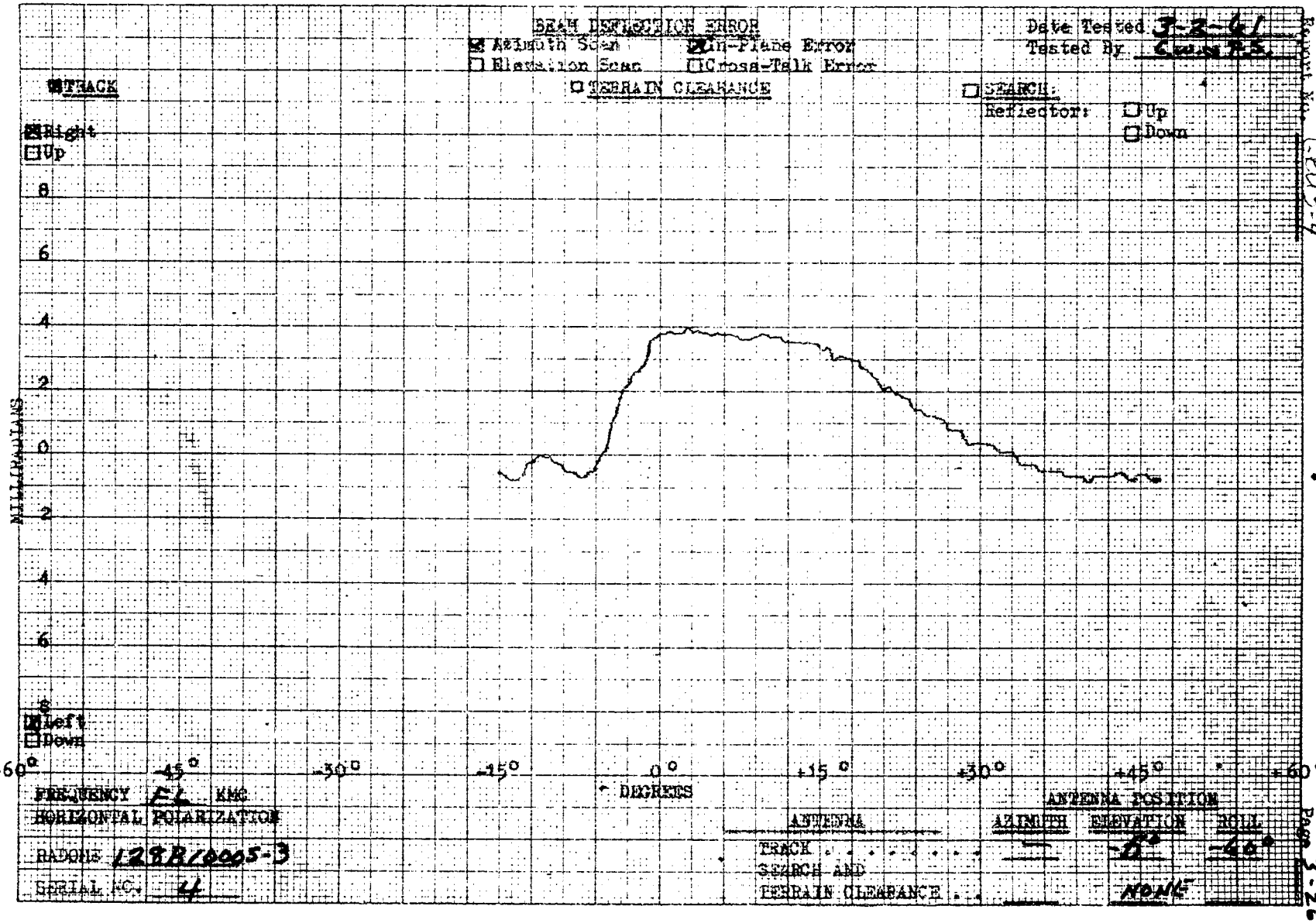
☒ TRACK

☒ Right

☐ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



☐ Left

☐ Down

FREQUENCY 5.6 KMC

HORIZONTAL POLARIZATION

RADOME 128R10005-3

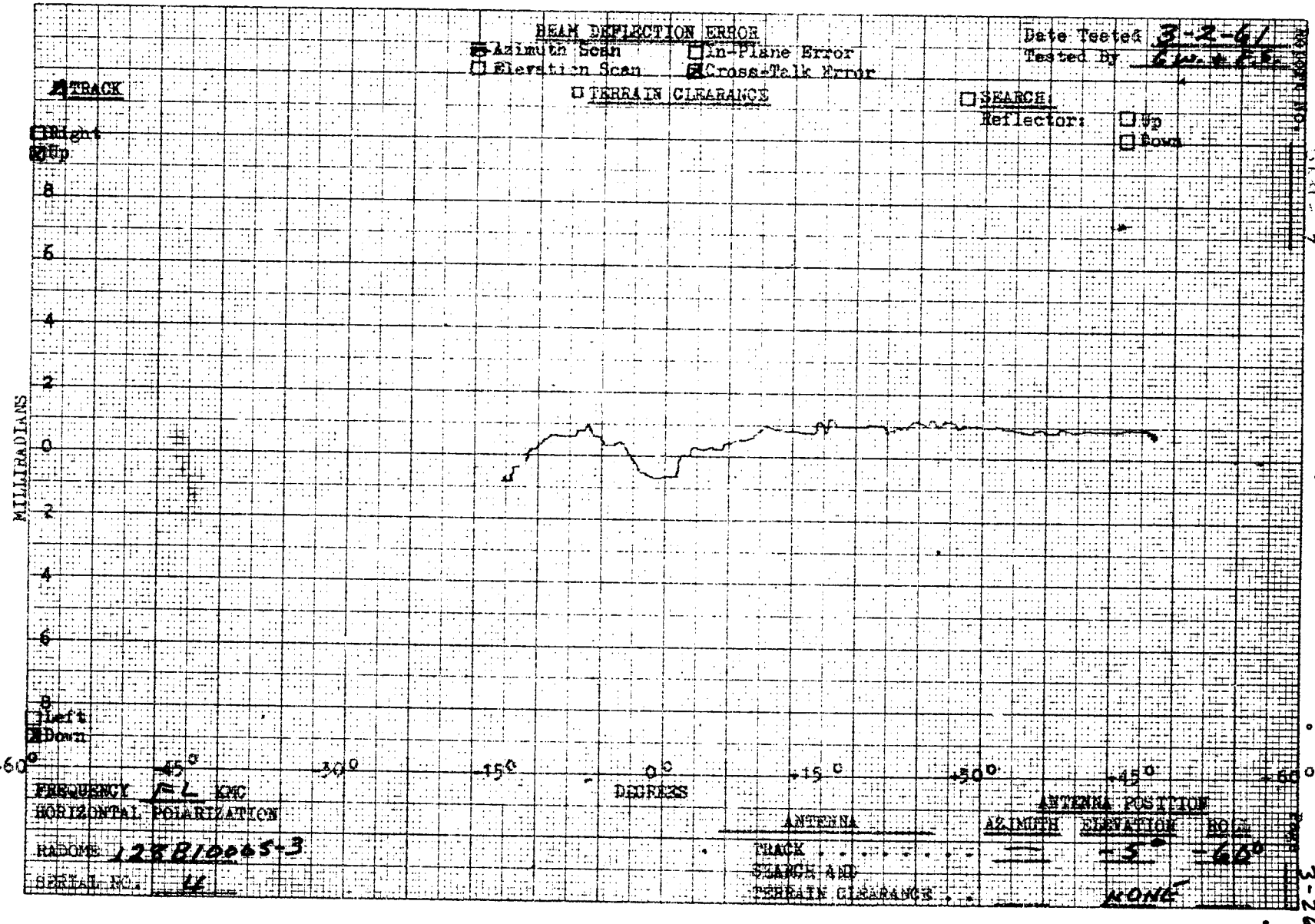
SERIAL NO. 4

ANTENNA POSITION

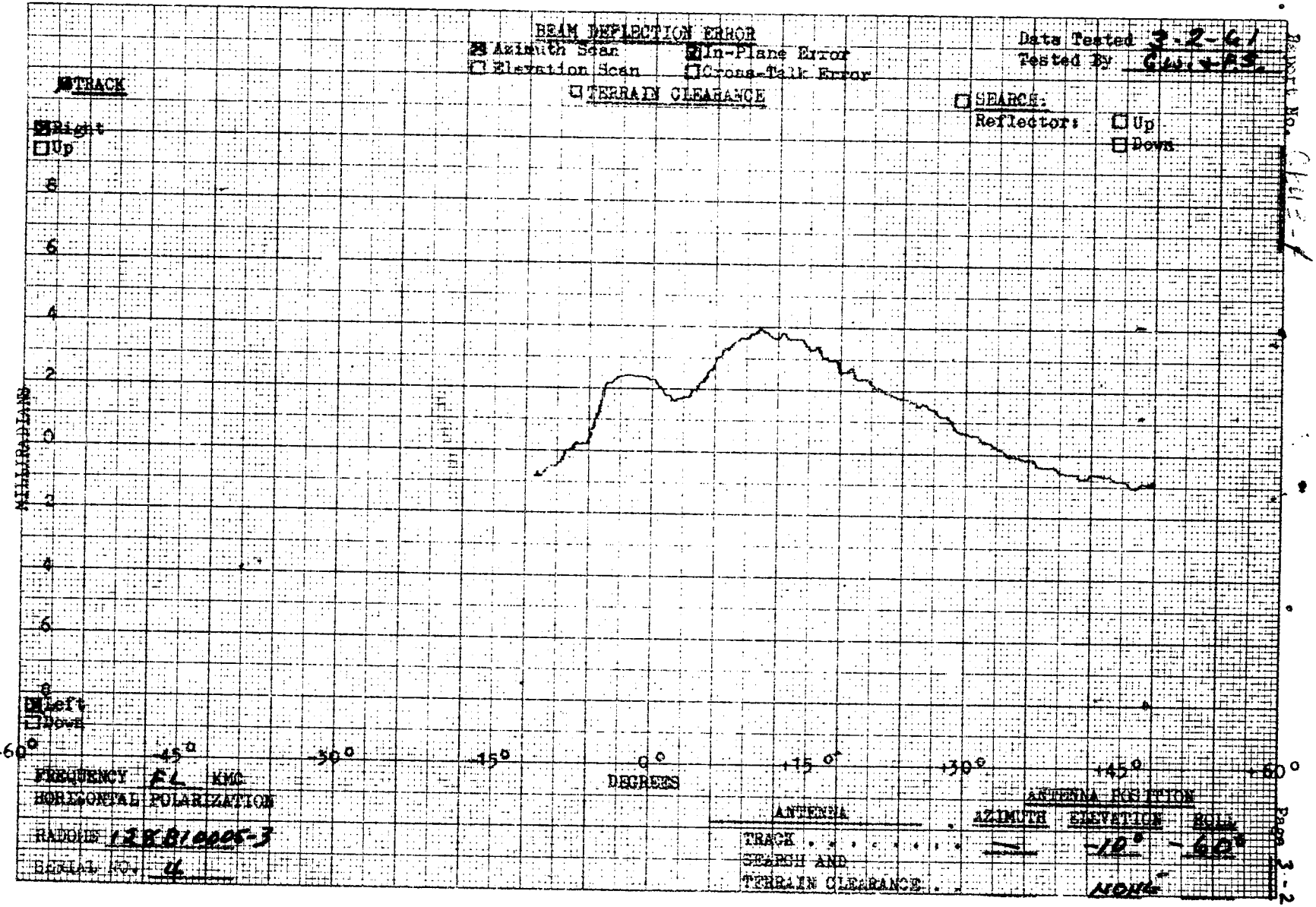
ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-2°	-40°
SEARCH AND TERRAIN CLEARANCE	—	NONE	—

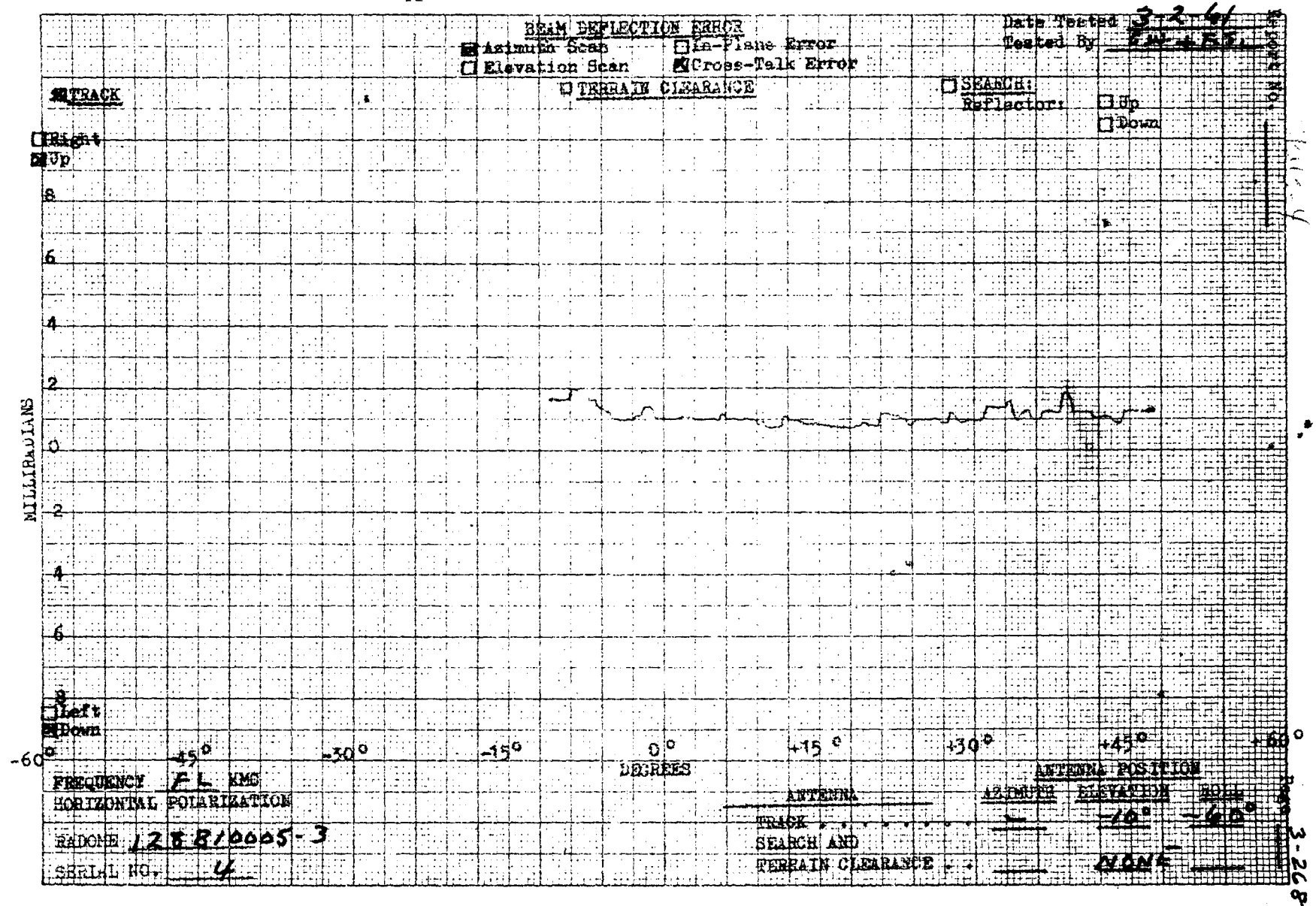
Report No. CPU3-4

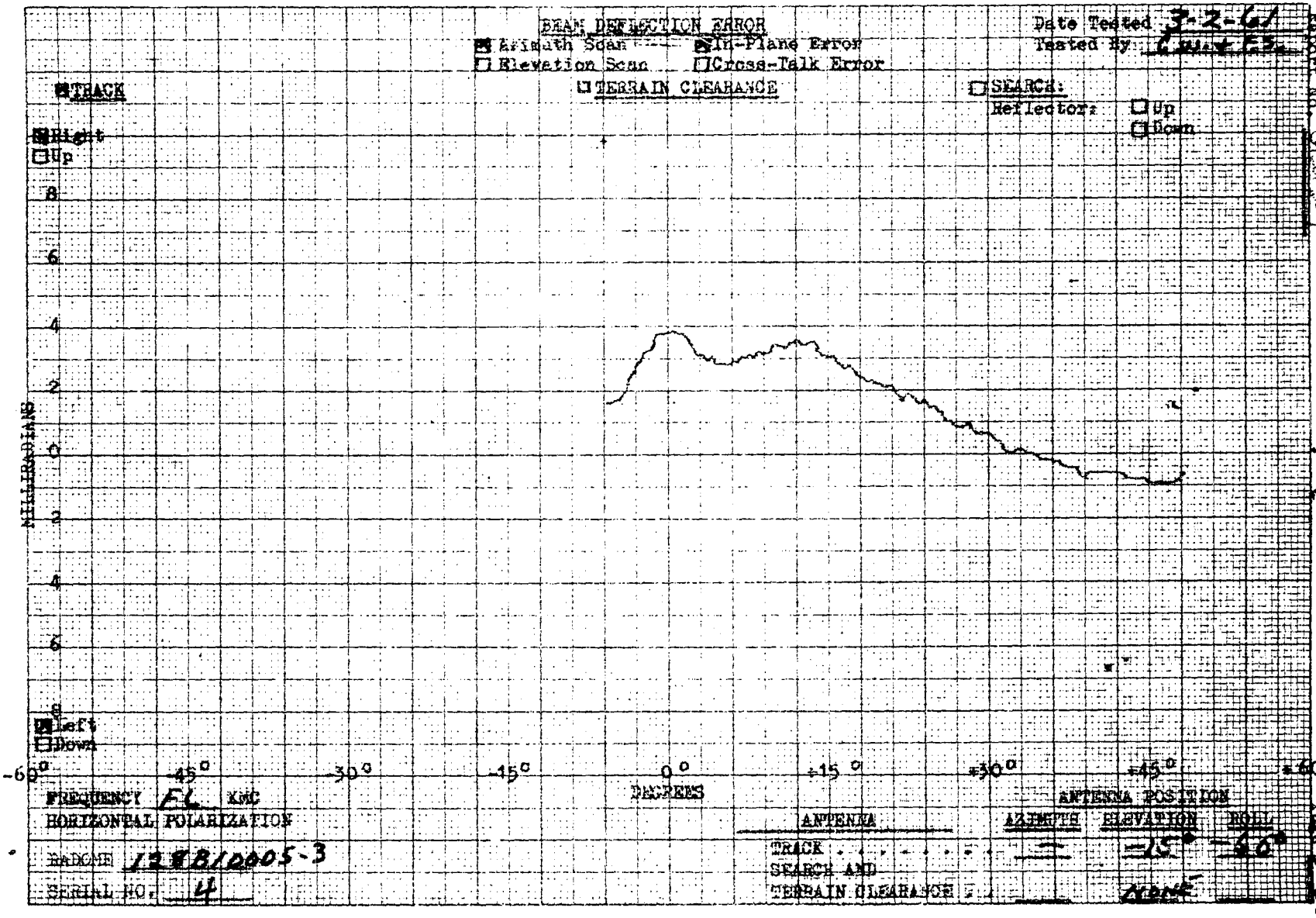
Page 3-265

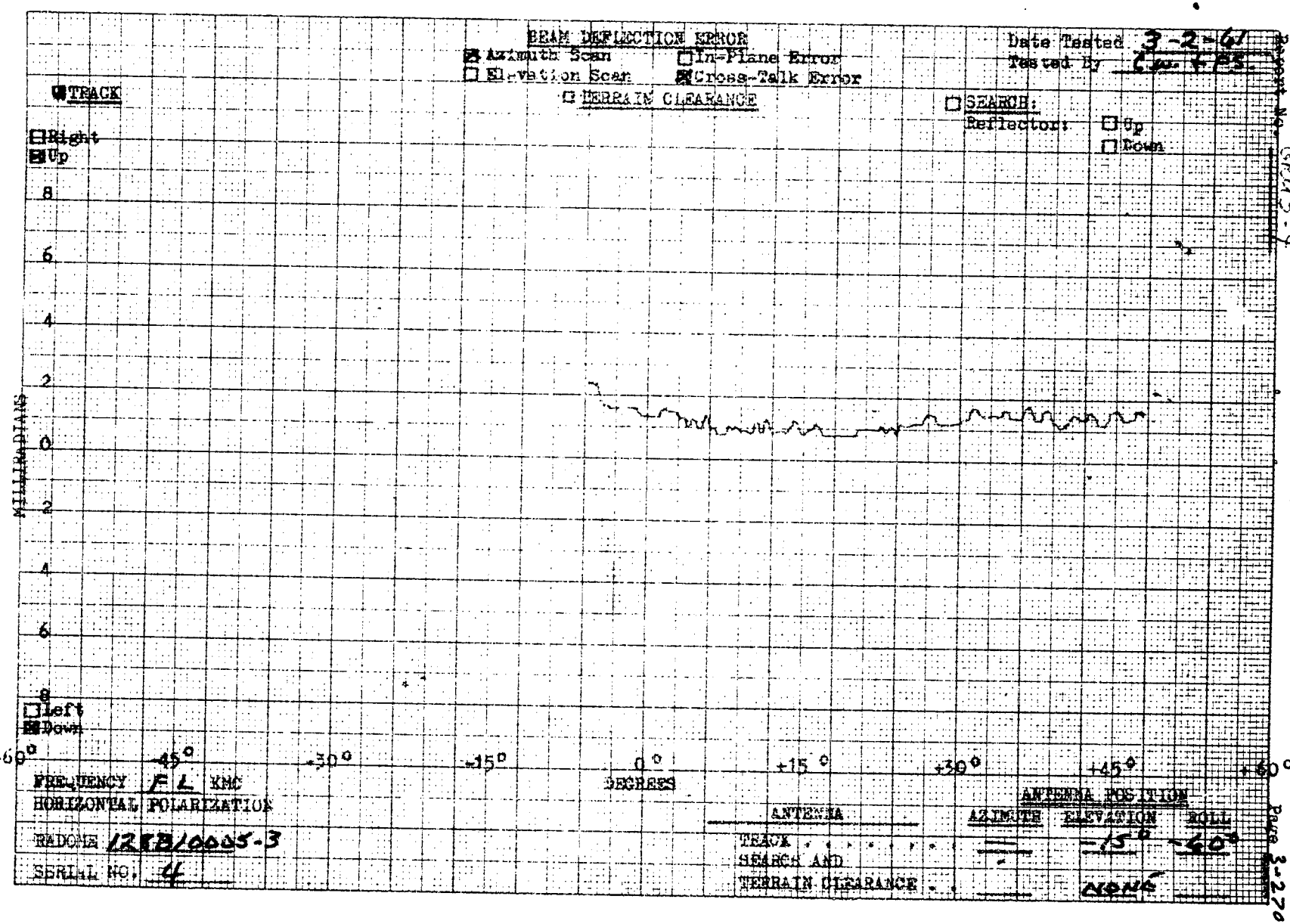

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By
TRACK
Right
Up
SEARCH
Reflector: Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.5 KMC
HORIZONTAL POLARIZATION
RADOME 125B10045-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
NO.
TRACK
SEARCH AND
TERRAIN CLEARANCE
-5°
-60°
KONG
3-2-61

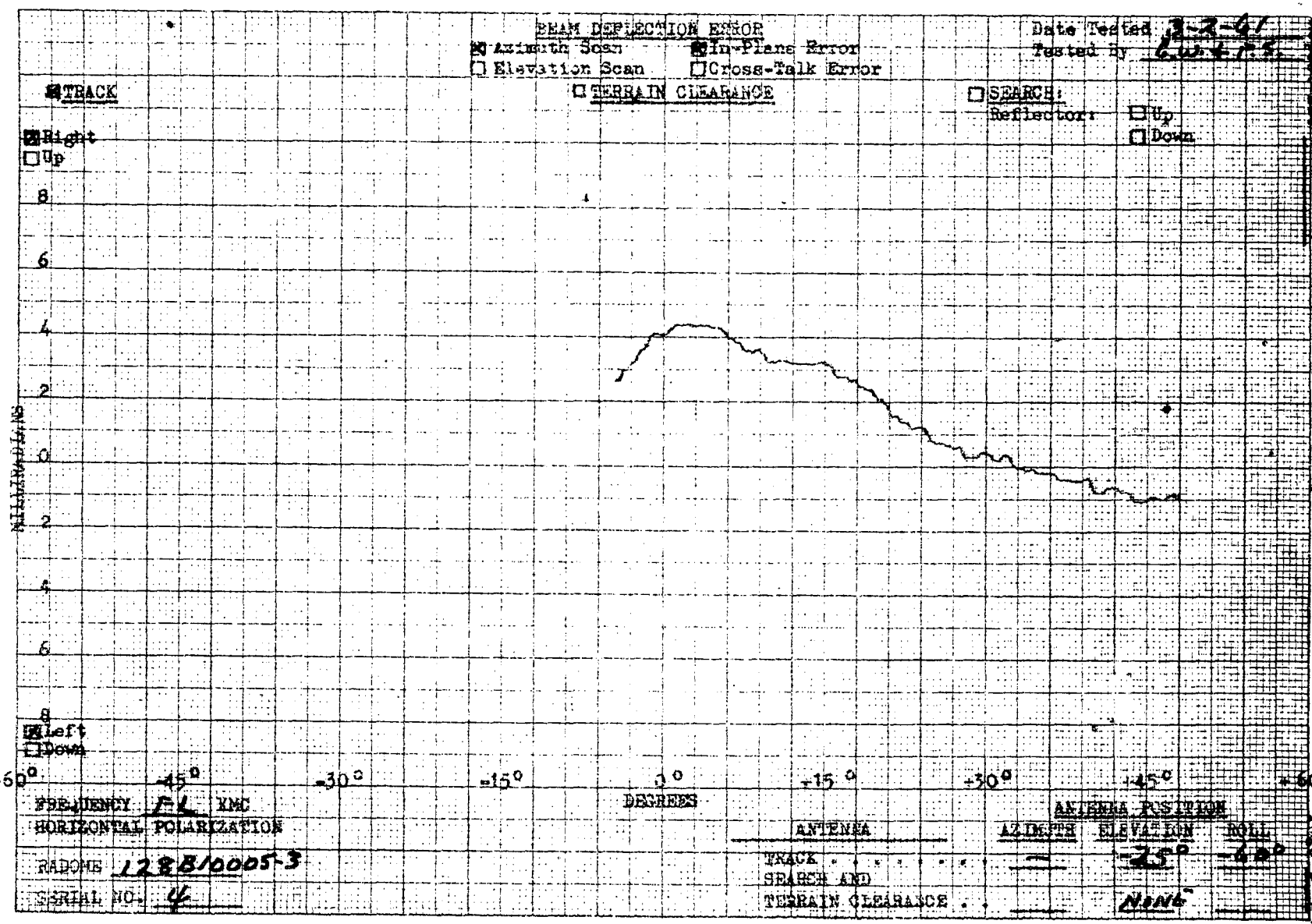
K&E 10 X 10 TO THE INCH 359-110

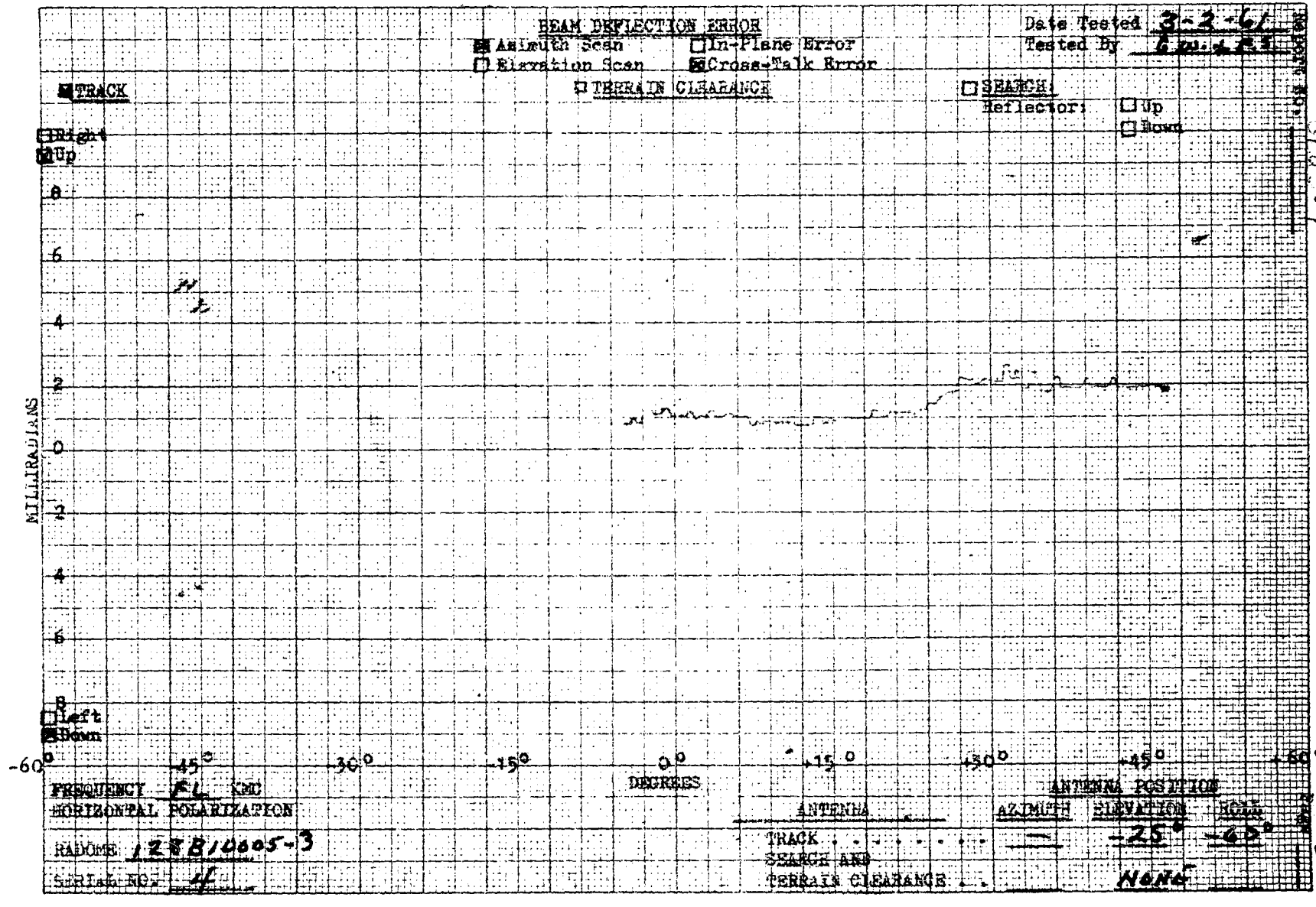



BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-64
Tested By FW & FS
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL KMC
HORIZONTAL POLARIZATION
RADOME 1281/0005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
-16°
-60°
ZERO
3-268

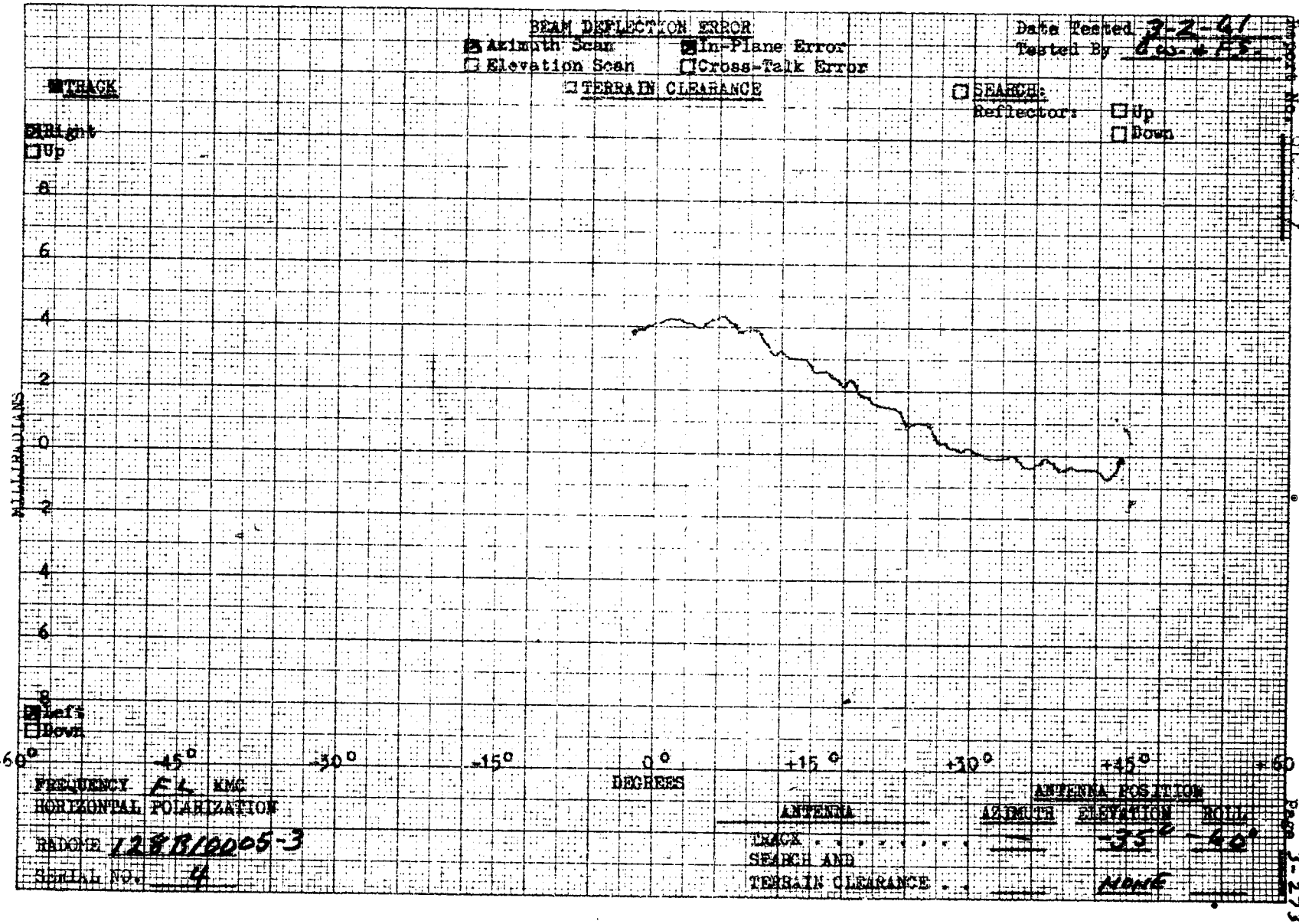

BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
Report No.
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY FL KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
—
-15°
-30°
-15°
Page 3-269


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-67
Tested By
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY F L KMC
HORIZONTAL POLARIZATION
RADOME 1283/0005-3
SERIAL NO. 4
ANTENNA
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
-15°
-60°
cross
Report No.
Page
3-270


BEAM DEFLECTION ERROR
Azimuth Scan
In-Plane Error
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
SEARCH:
Reflector:
Up
Down
Date Tested 3-3-61
Tested by C.W.T.S.
Report No. CW13-4
TRACK
Right
Up
Left
Down
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
-25°
-60°
None
Page 3-271


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 3-2-61
Tested By
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION HOUR
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
-25°
-40°
NONE
3-272

K&E 10 X 10 TO THE ½ INCH 359-110



BEAM DEFLECTION ERROR

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 3-2-61

Tested By [illegible]

☐ SEARCH:

Reflector: ☐ Up ☐ Down

■ TRACK

☐ Right

☒ Up

8

6

4

2

0

2

4

6

8

☐ Left

☒ Down

MILLIRADIANS

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY CL KMC

HORIZONTAL POLARIZATION

RADOME 128R10005-3

SERIAL NO. 4

ANTENNA

TRACK

SEARCH AND

TERRAIN CLEARANCE

ANTENNA POSITION

AZIMUTH	ELEVATION	ROLL
—	-35°	-60°
—	None	—

Report No. [illegible]

Page 3-274

K&E 10 X 10 TO THE ½ INCH 359-110
KEUFFEL & ESSER CO.

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By [illegible]

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☐ SEARCH: Reflectors ☐ Up ☐ Down

☒ TRACK

☒ Right

☐ Up

MILLIRADIANS

8 6 4 2 0 2 4 6 8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY [illegible] KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	—	-45°	-60°
SEARCH AND TERRAIN CLEARANCE	—	NONE	—

CRUS-4

Page 3-275

10 X 10 TO THE ½ INCH 359-1113

BEAM DEFLECTION ERROR

Date Tested 3-2-61

Tested By [illegible]

☒ Azimuth Scan ☐ In-Plane Error

☐ Elevation Scan ☒ Cross-Talk Error

☐ TERRAIN CLEARANCE

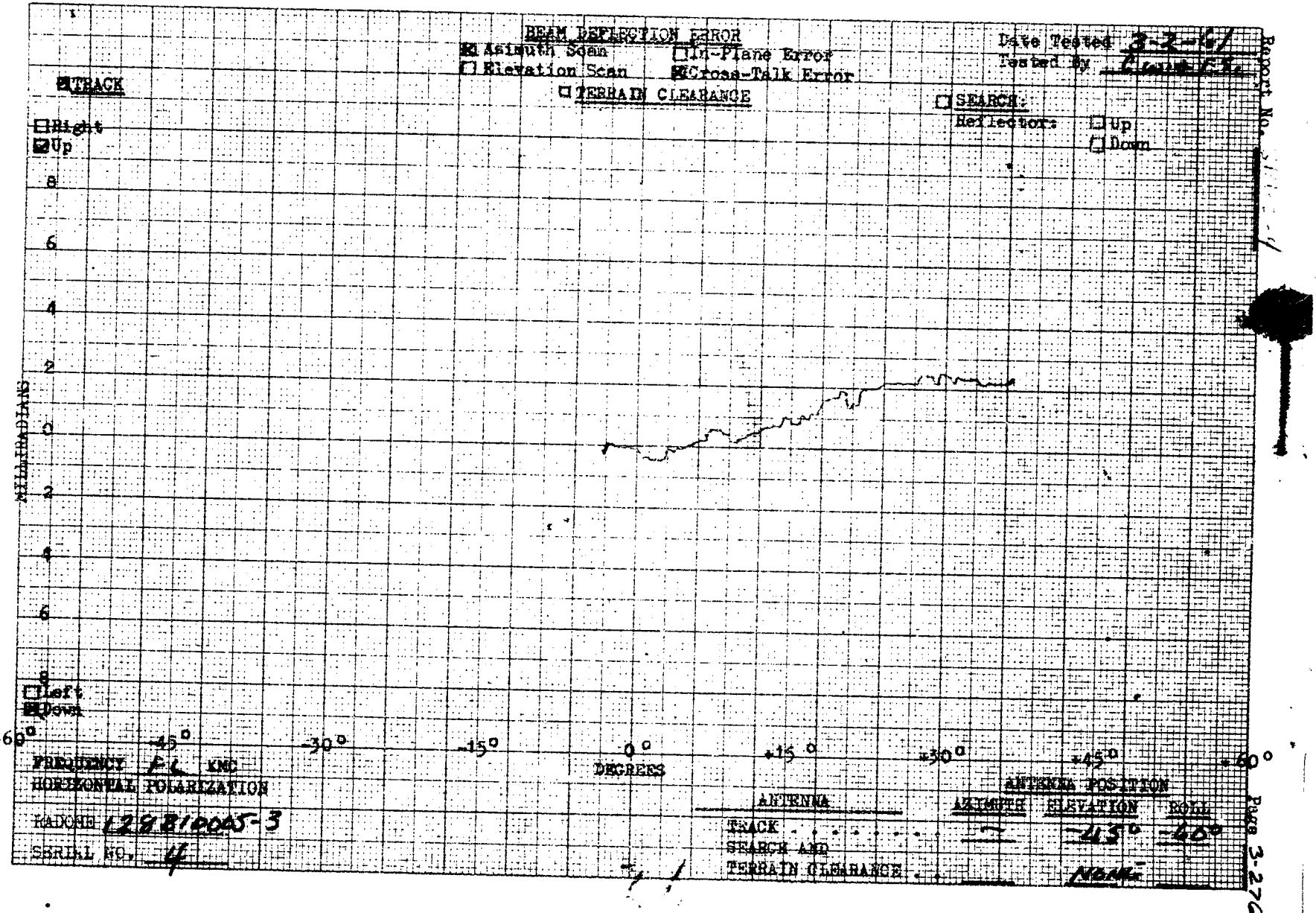
☒ TRACK

☐ Right

☒ Up

☐ SEARCH:

Reflector: ☐ Up ☐ Down



☐ Left

☒ Down

FREQUENCY 6 KMC

HORIZONTAL POLARIZATION

RADOME 1281/0045-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	—	-45°	-60°
SEARCH AND TERRAIN CLEARANCE		NONE	

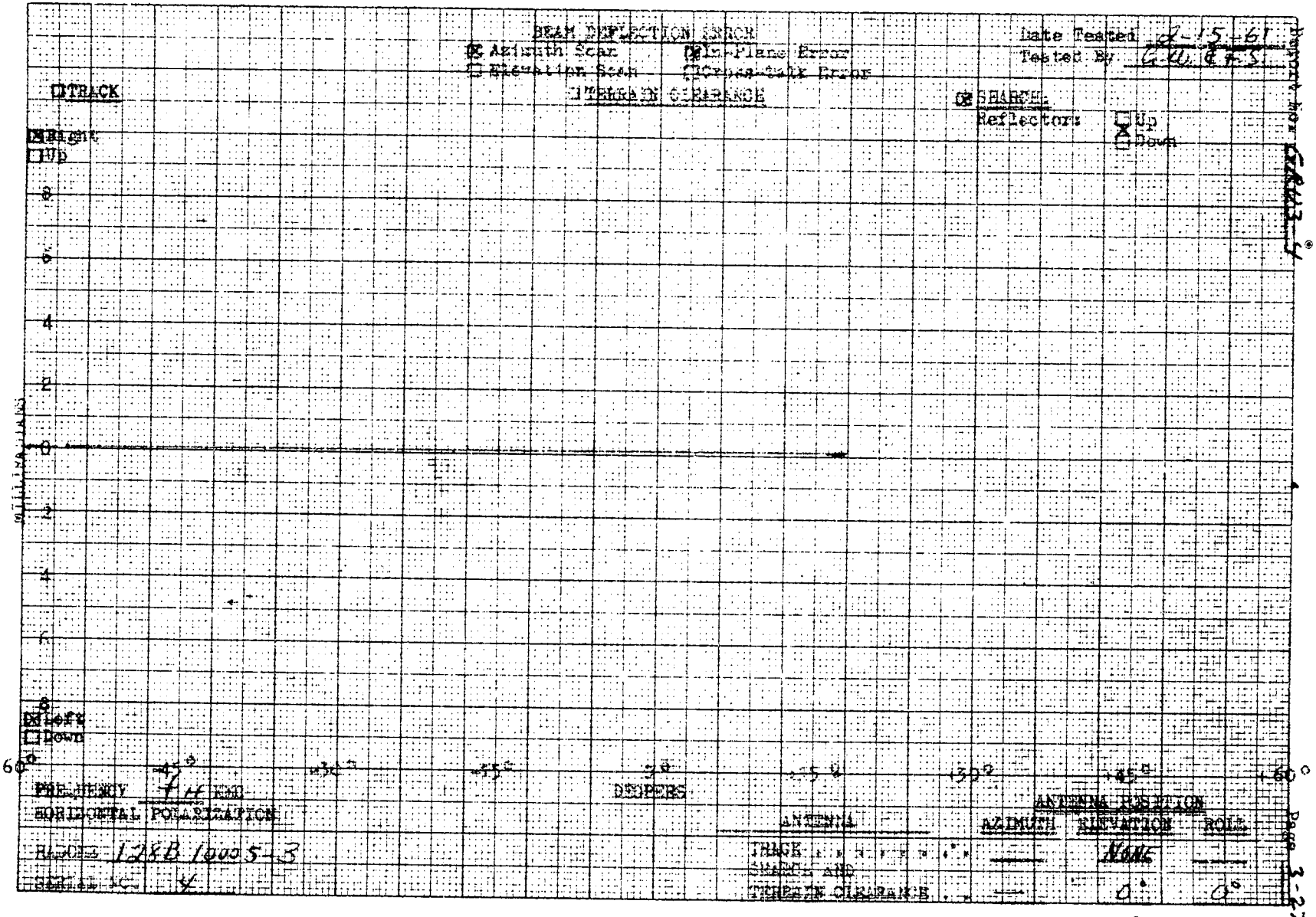
Report No. [illegible]

SECTION 4.1

SEARCH ANTENNA BOARDSIGHT ERROR

F_H @ 0° ROLL, REFLECTOR MID POSITION

K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.



Date Tested 4-15-61
Tested By G.W. & F.S.

Report No. GER 443-4

PRE-HEAT 4 HRS @ 100°C

HORIZONTAL POLARIZATION

Run No. 128B 10005-3

Serial No. 4

100 % LEVEL

Page 3-278

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By G.W. & E.S.

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TRACK ☐ TERRAIN CLEARANCE ☒ SEARCH:

Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

ELEVATION

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		+30°	0°

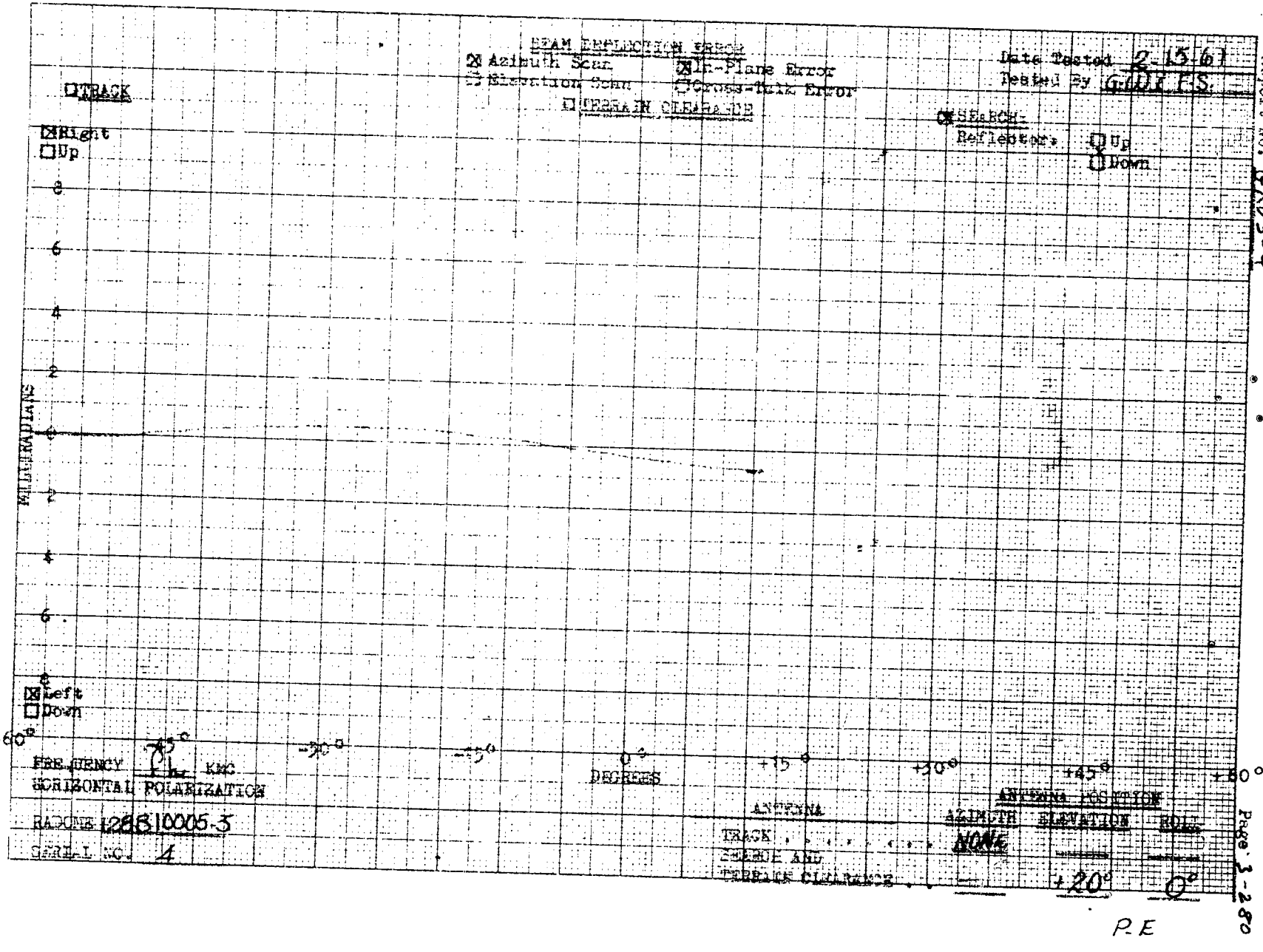
RADOME 1286100053

SERIAL NO. 4

P.E

Drawing No. 6643-5

Page 3-279


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
H-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-67
Tested By G.D.R. F.S.
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5 KMC
HORIZONTAL POLARIZATION
RADOME 1288 10005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
NONE
+20° 0°
P.E
Report No. GRU 3-4
Page 3-280

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By G.W. F.S.

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

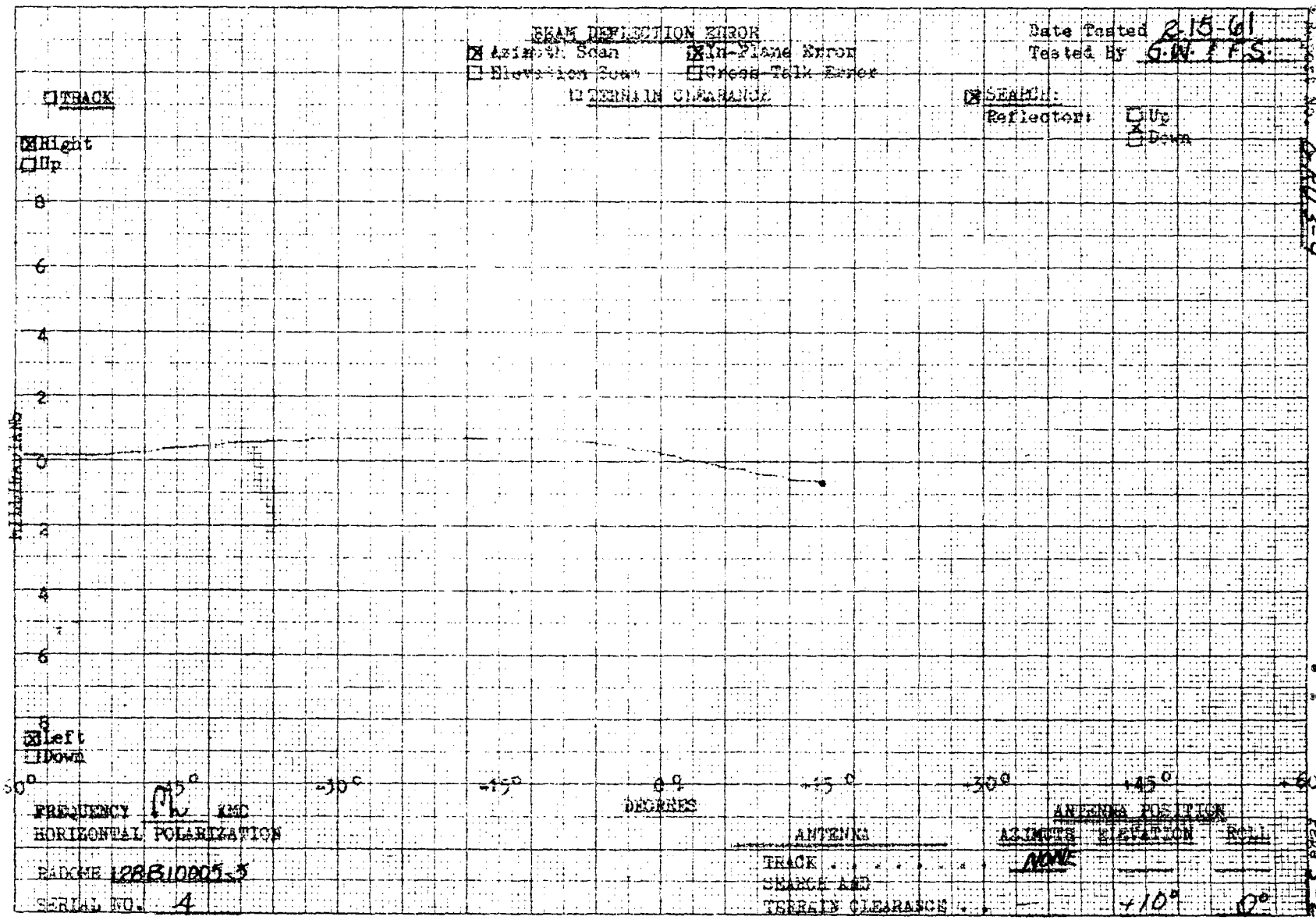
☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflector: ☐ Up ☒ Down



☒ Left

☐ Down

FREQUENCY 15.2 KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	Roll
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		+10°	0°

P.E

Report No. 6243-4

Page 3-2-81

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ H-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-15-61
Tested By GILES

☐ TRACK
☒ SEARCH:
Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

MILLIRADIANS

8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

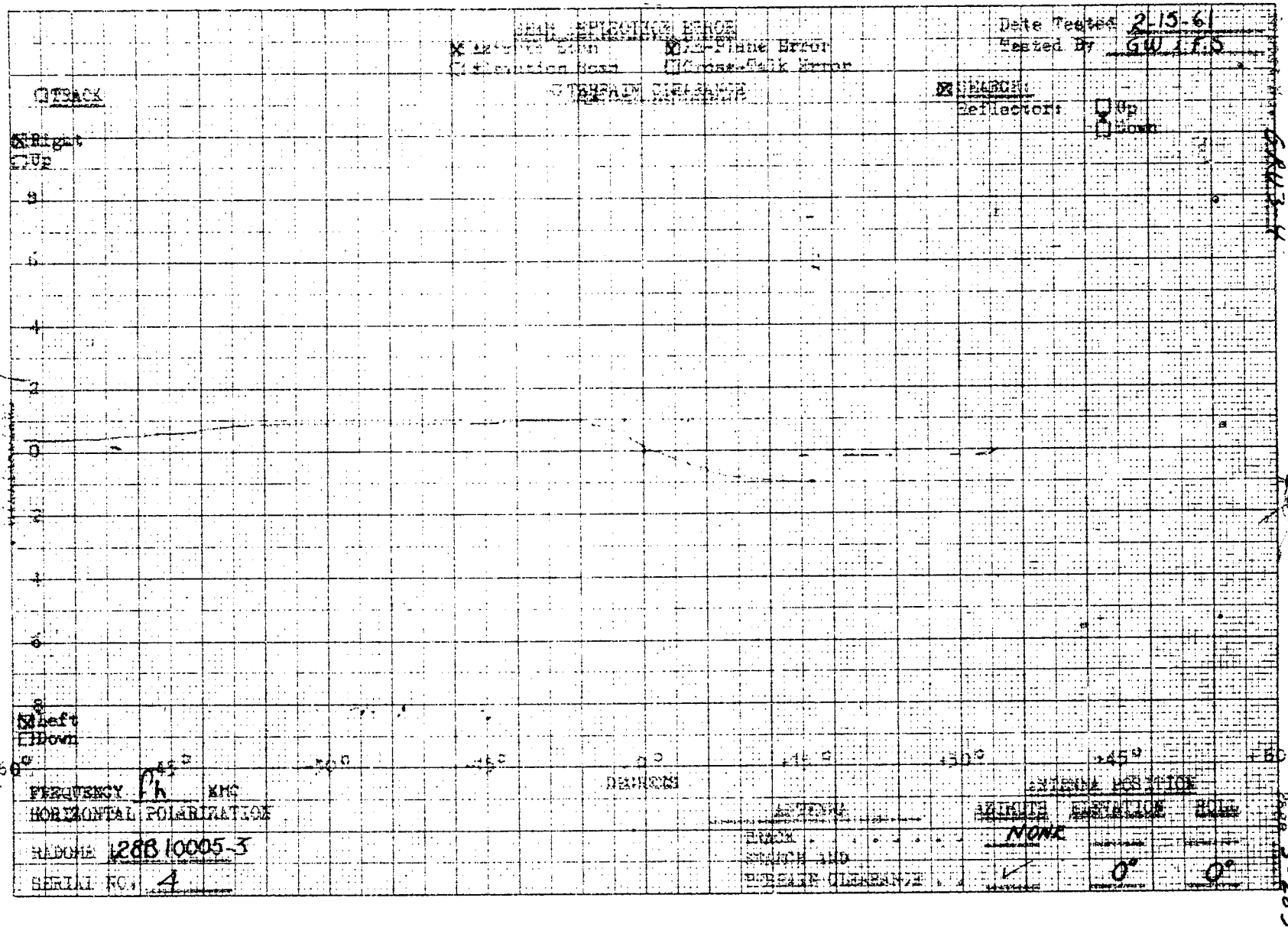
FREQUENCY 9.4 KMC
HORIZONTAL POLARIZATION
RADOME 1285 10005-3
SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	+5°	0°	

P.E

Report No. 6402-4


Date Tested 2-15-61
Tested By GW LS
Reflector: Up
Down
Left
Down
DEGREES
FREQUENCY Fh KMC
HORIZONTAL POLARIZATION
RADOME 28B10005-3
SERIAL NO. 4
NONE
0°
0°

BEAM DEFLECTION ERROR

Date Tested 8-15-61

Tested By GWES

☒ Azimuth Scan ☒ E-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

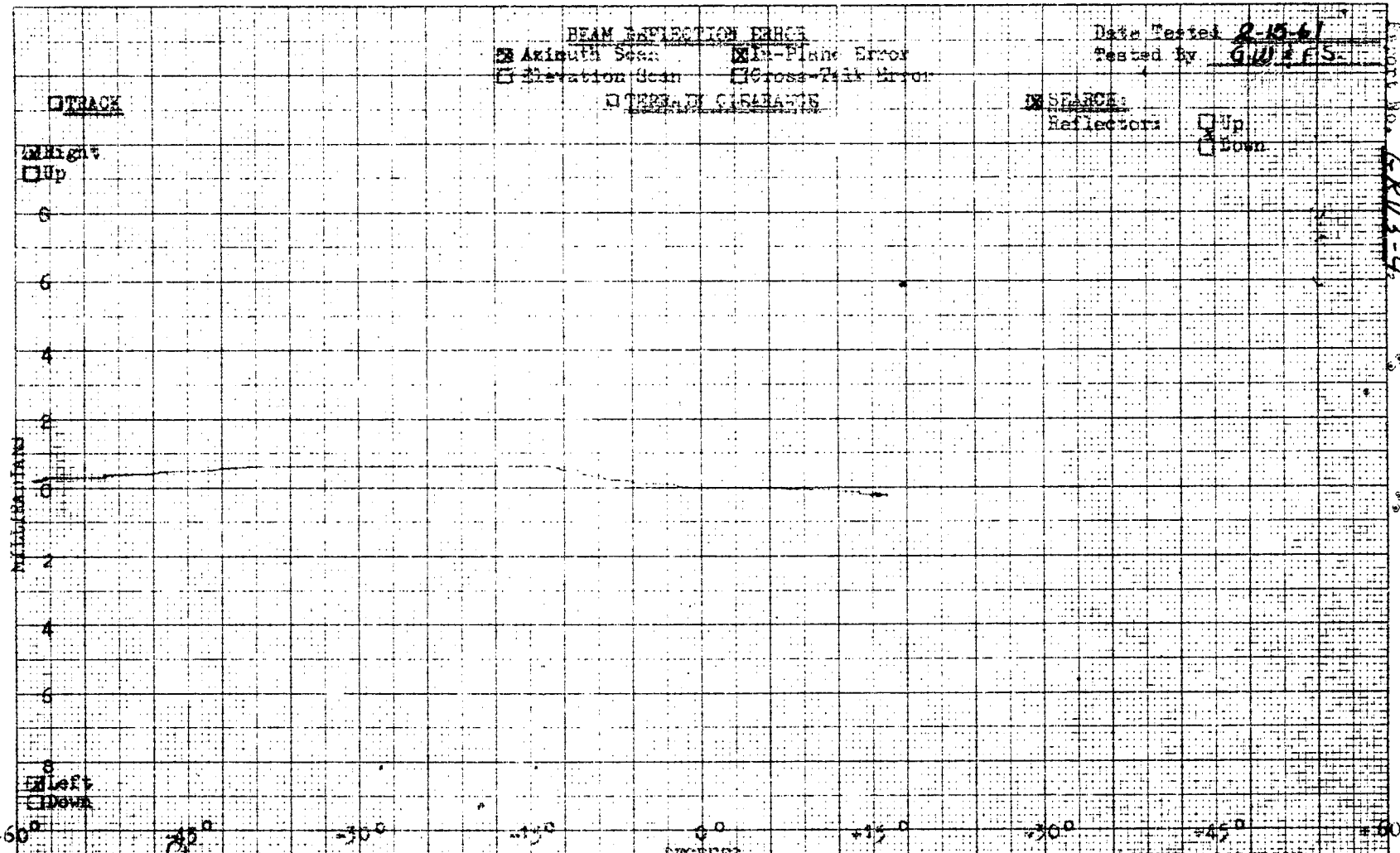
☐ TERRAIN CLEARANCE

☐ TRACK ☒ SEARCH

Reflector: ☐ Up ☒ Down

☒ Right

☐ Up



☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 4.2 KMC

HORIZONTAL POLARIZATION

BADGE 1288 10005-3

SERIAL NO. 4

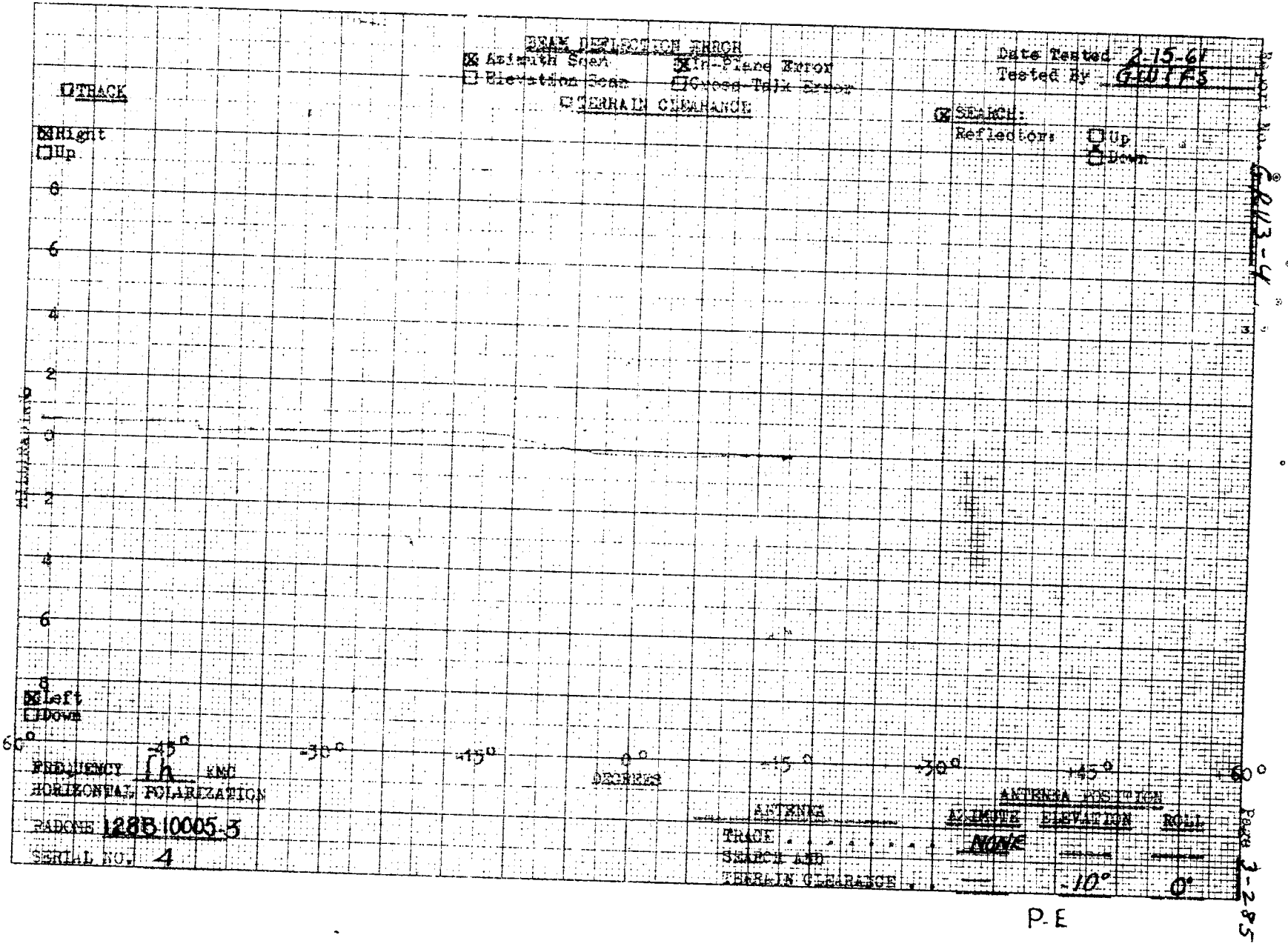
ANTENNA POSITION

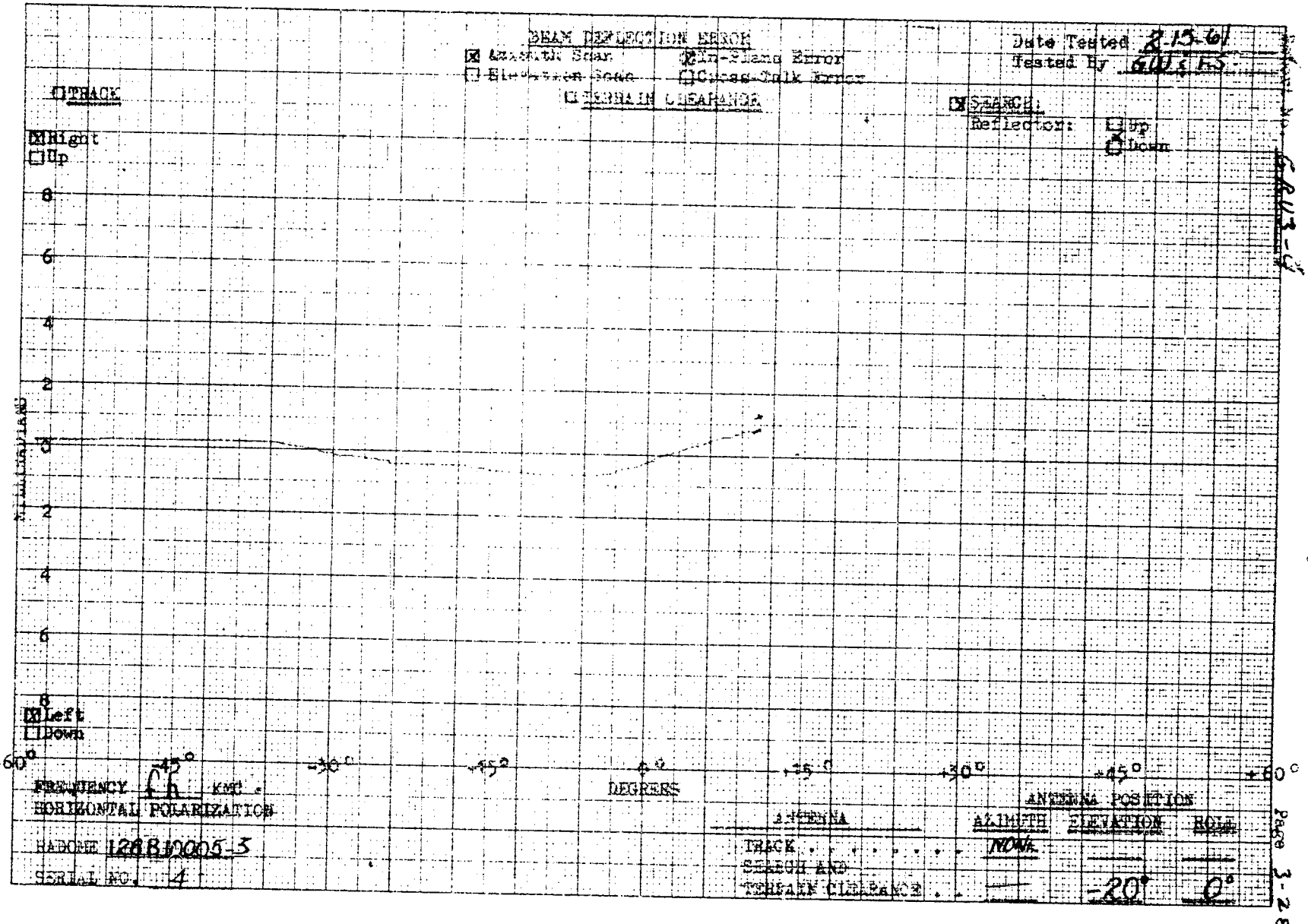
ANTENNA	AZIMUTH	ELEVATION	TILT
TRACK		NONE	
SEARCH AND TERRAIN CLEARANCE		-5°	0°

P-E

Report No. GR 113-4

Page 3-284


BEAM DEFLECTION ERROR
Azimuth Scan
In-Phase Error
Elevation Scan
Crossed-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GEUTES
TRACK
Right
Up
SEARCH:
Reflectors:
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY Ch MC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA TRACK
SEARCH AND TERRAIN CLEARANCE
NONE
-10°
0°
P.E
Report No. 6043-4
Page 3-285


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Sin-Sums Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GWS, HS
TRACK
Right
Up
SEARCH
Reflection:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY fh KMC
HORIZONTAL POLARIZATION
RADOME 126B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NOM.
-20°
0°

PE

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☒ TERRAIN CLEARANCE

Data Tested 2-15-67

Tested By GWF-S

REPORT NO. GR03-4

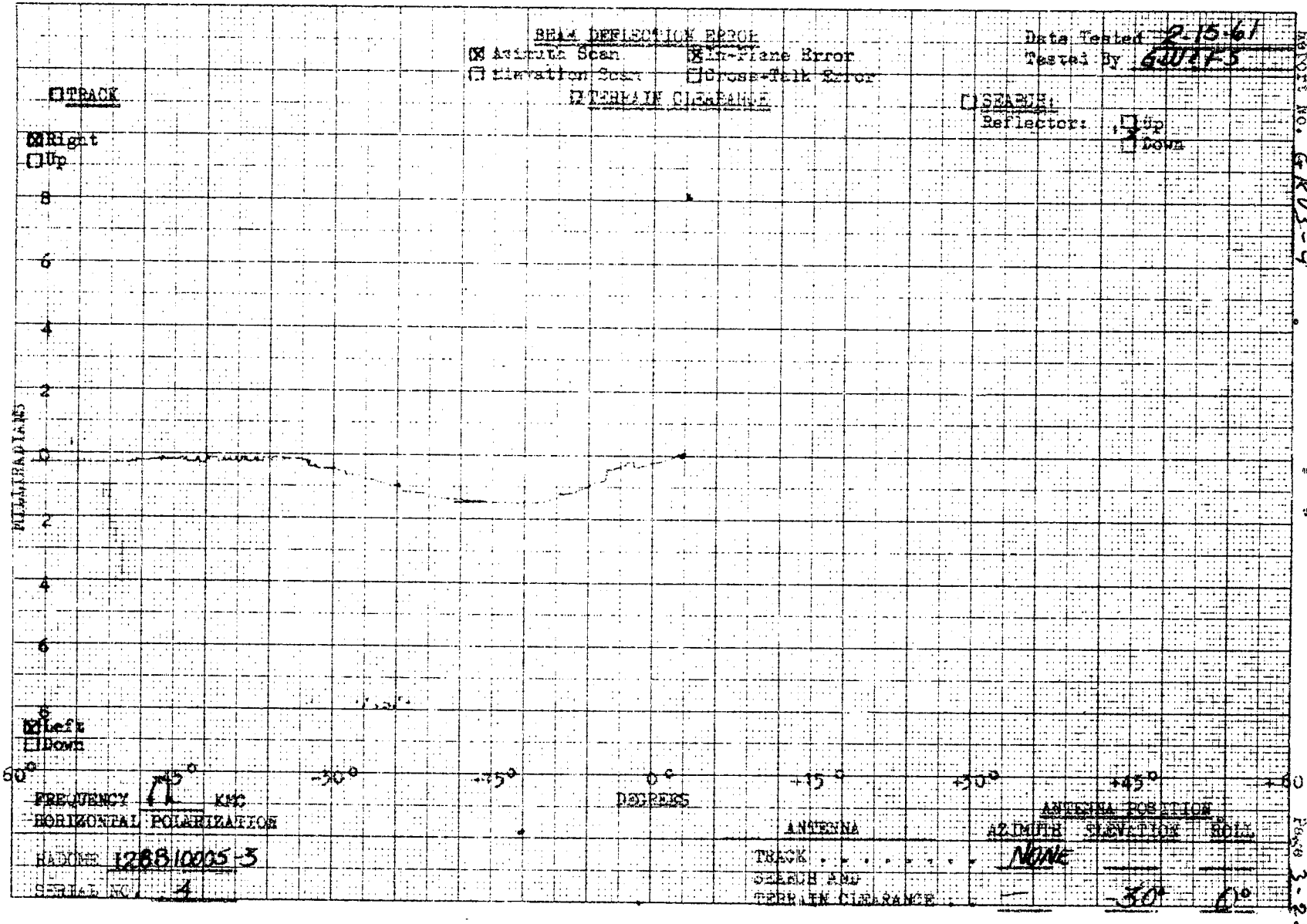
☐ TRACK

☒ Right

☐ Up

☐ SEARCH

Reflector: ☐ Up ☒ Down



FREQUENCY 4.4 KMC

HORIZONTAL POLARIZATION

RADOME 1288 10005-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		-30°	60°

PAGE 3-287

P.E

SEARCH ANTENNA FOR ...IGHT ERROR

F_H @ -15° ROLL, REFLECTOR MID POSITION

K&E 10 X 10 TO THE INCH 359-11G
KEUFFEL & ESSER CO.

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error
☐ TERRAIN CLEARANCE

Date Tested 2-15-61
Tested By G. W. [illegible]

Report No. GAW3-4

☐ TRACK
☒ Right
☐ Up

☒ SEARCH
Reflector: ☐ Up ☒ Down

Antenna Beam Deflection

6
4
2
0
2
4
6

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 14 KMC
HORIZONTAL POLARIZATION

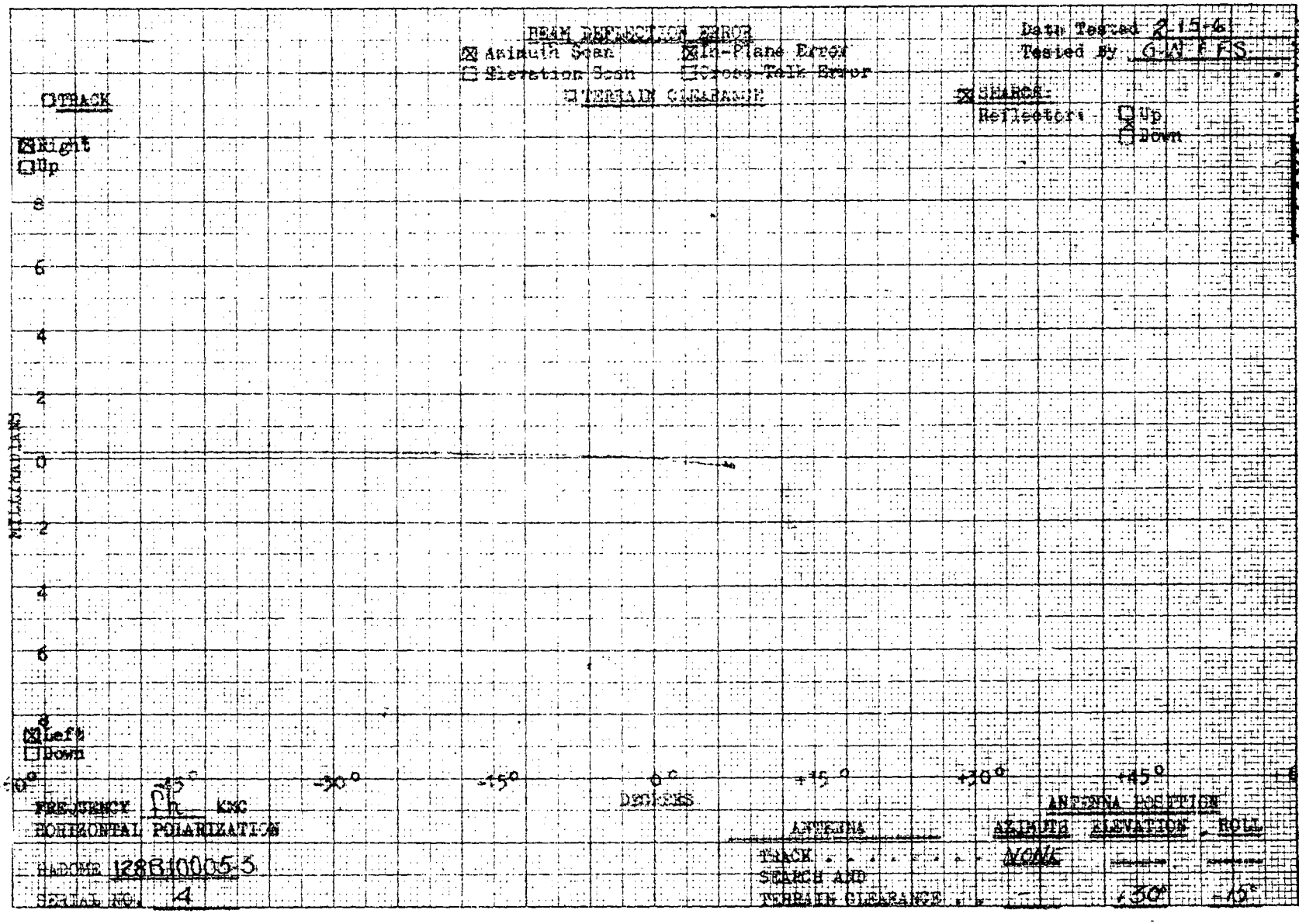
RADOME 1288/1405-3
SERIAL NO. 4

ANTENNA POSITION

	AZIMUTH	ELEVATION	ROLL
AFTERAL			
TRACK		NAME	
SEARCH AND TERRAIN CLEARANCE		0°	-45°

Page 3-209

100 % LEVEL



Report No. ERU3-4

Page 3-290

PE

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61

Tested By G.W.E.S.

☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflectors: ☐ Up

☐ Down

Report No. EM 13-54

Page 3-291

Milliradians

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh KMC

HORIZONTAL POLARIZATION

RADOME 128S10006-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NOW		
SEARCH AND TERRAIN CLEARANCE		+80°	-15°

PE

BEAM DEFLECTION SHIFT

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Tale Error

☐ Check IN PARAMUS

Date Tested 2-15-61

Tested By G.W.F.S.

☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflectors ☐ Up ☒ Down

Report No. GRU3-4

8

6

4

2

0

2

4

6

8

MILLIRADIANS

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY Ch KMC

HORIZONTAL POLARIZATION

RADOME 125B10005-5

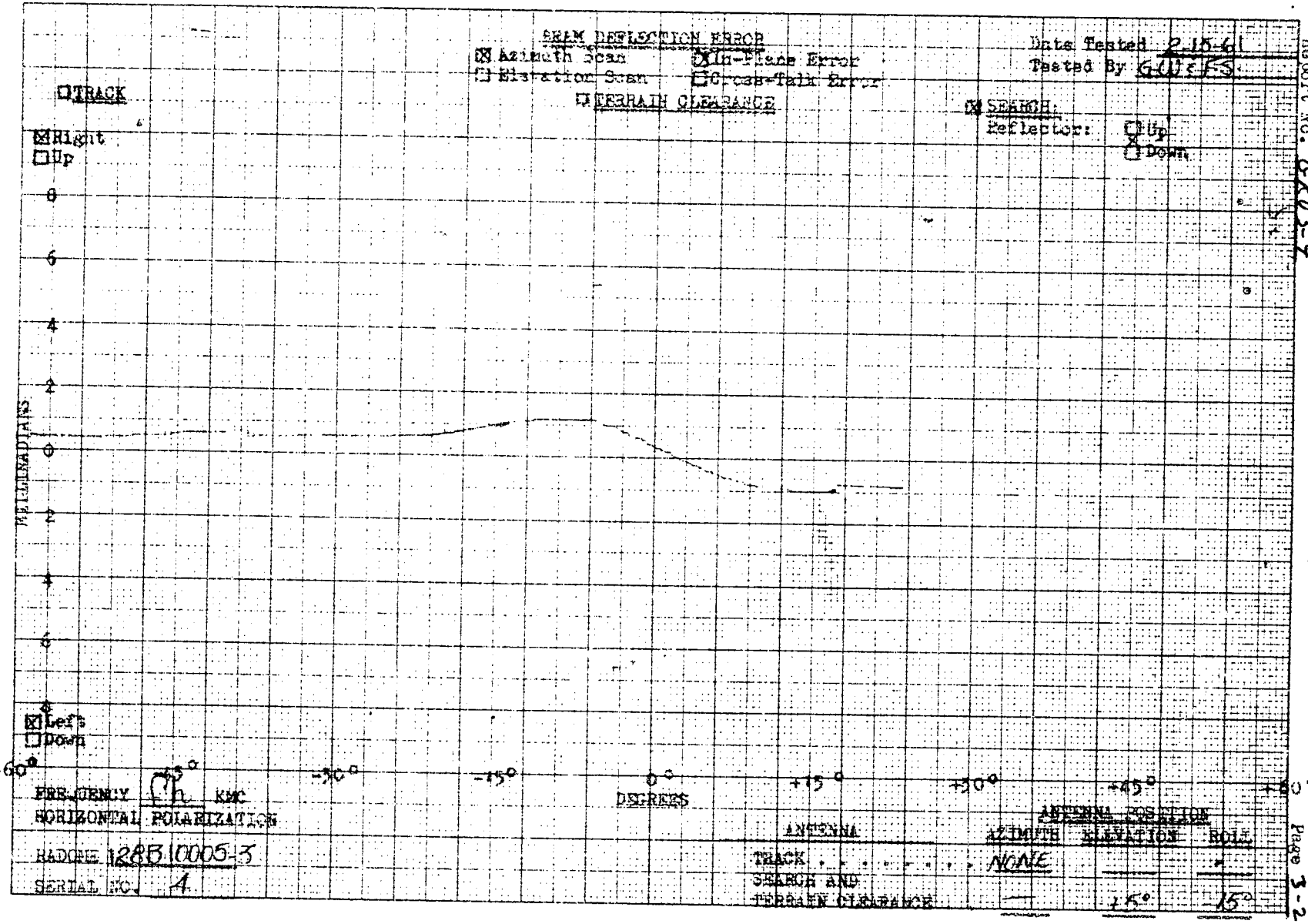
SERIAL NO. 4

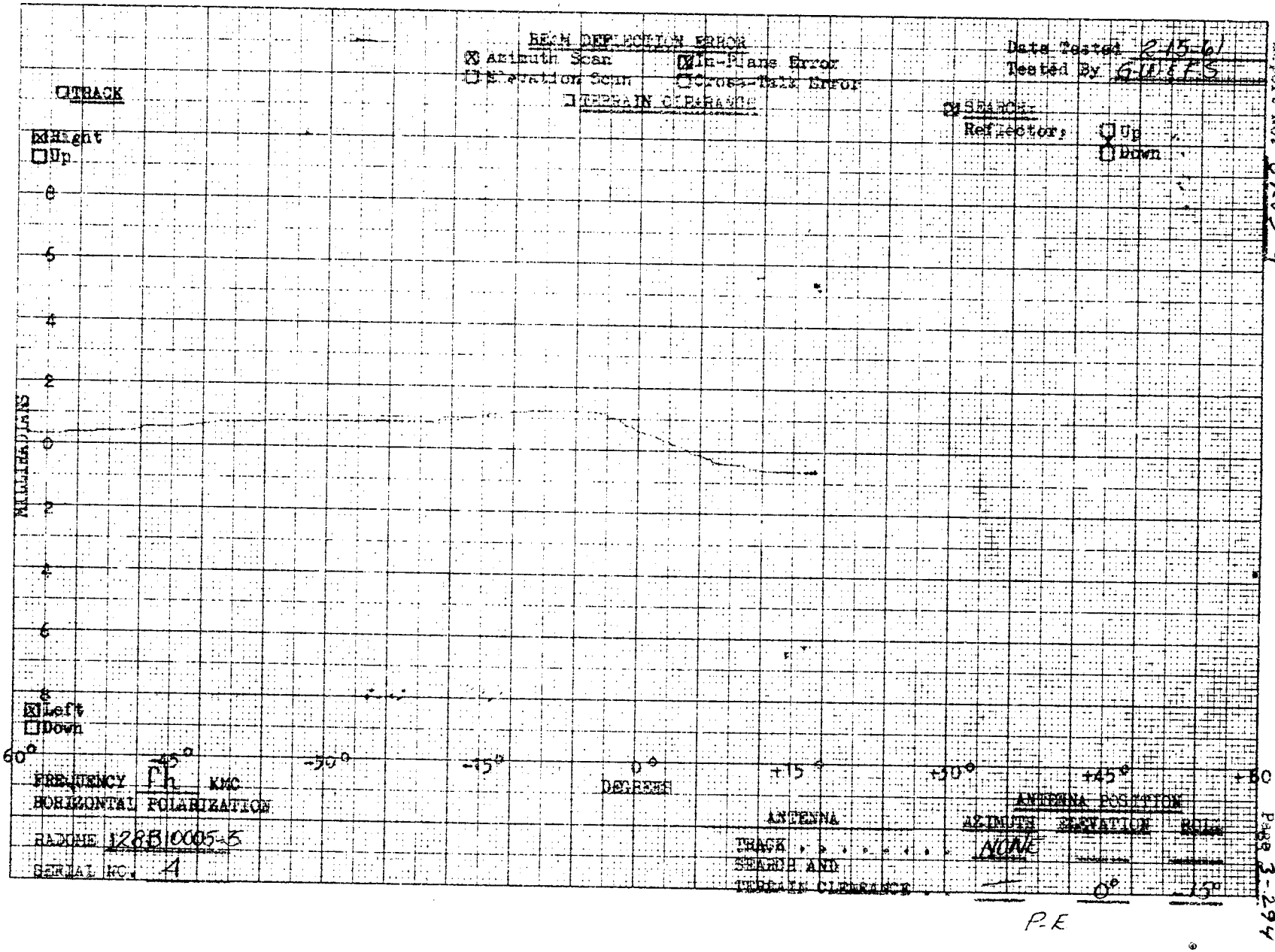
ANTENNA POSITION

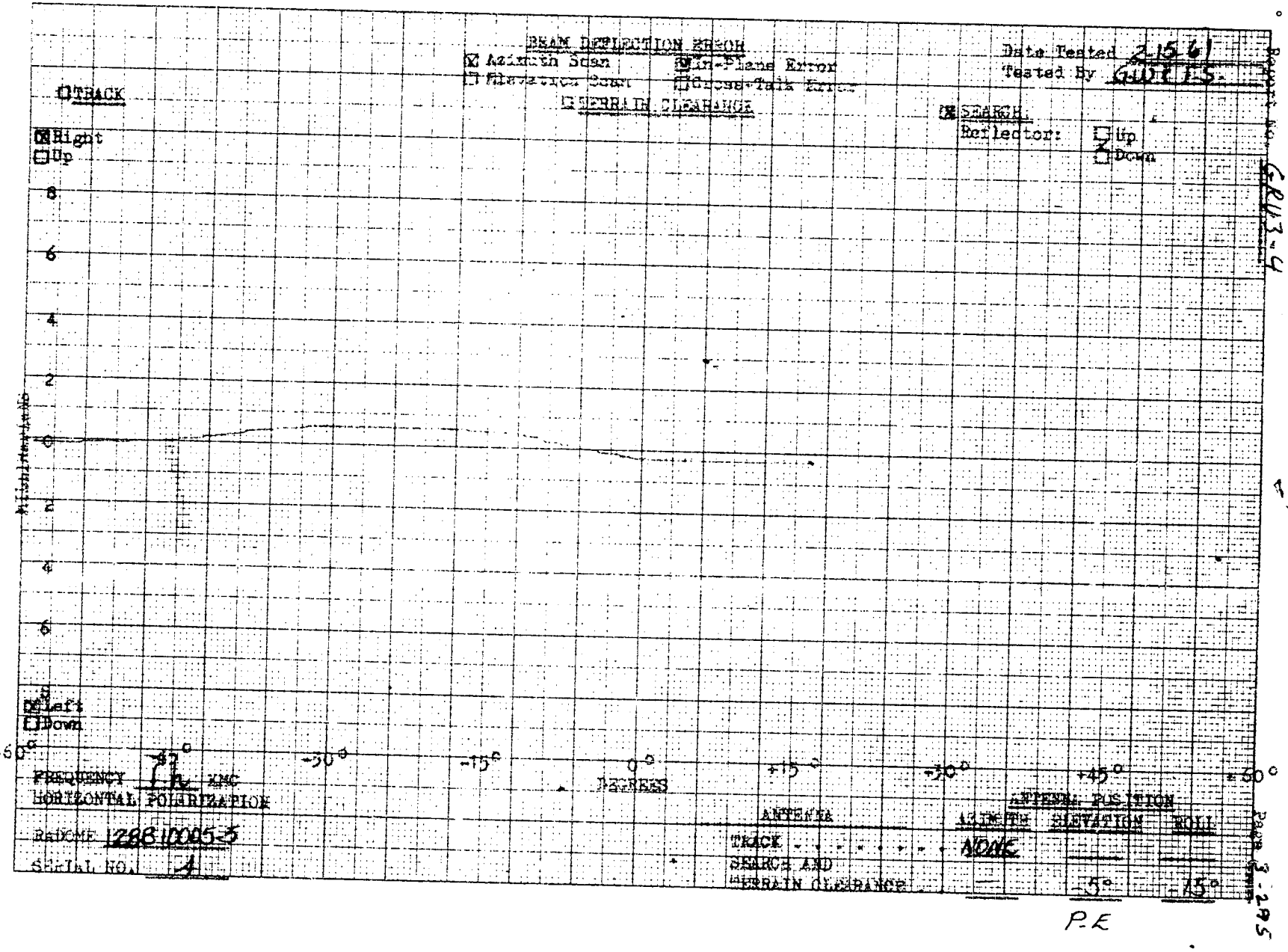
	AZIMUTH	ELEVATION	ROLL
TRACK			
SEARCH AND TERRAIN CLEARANCE	NONE	+10°	-14°

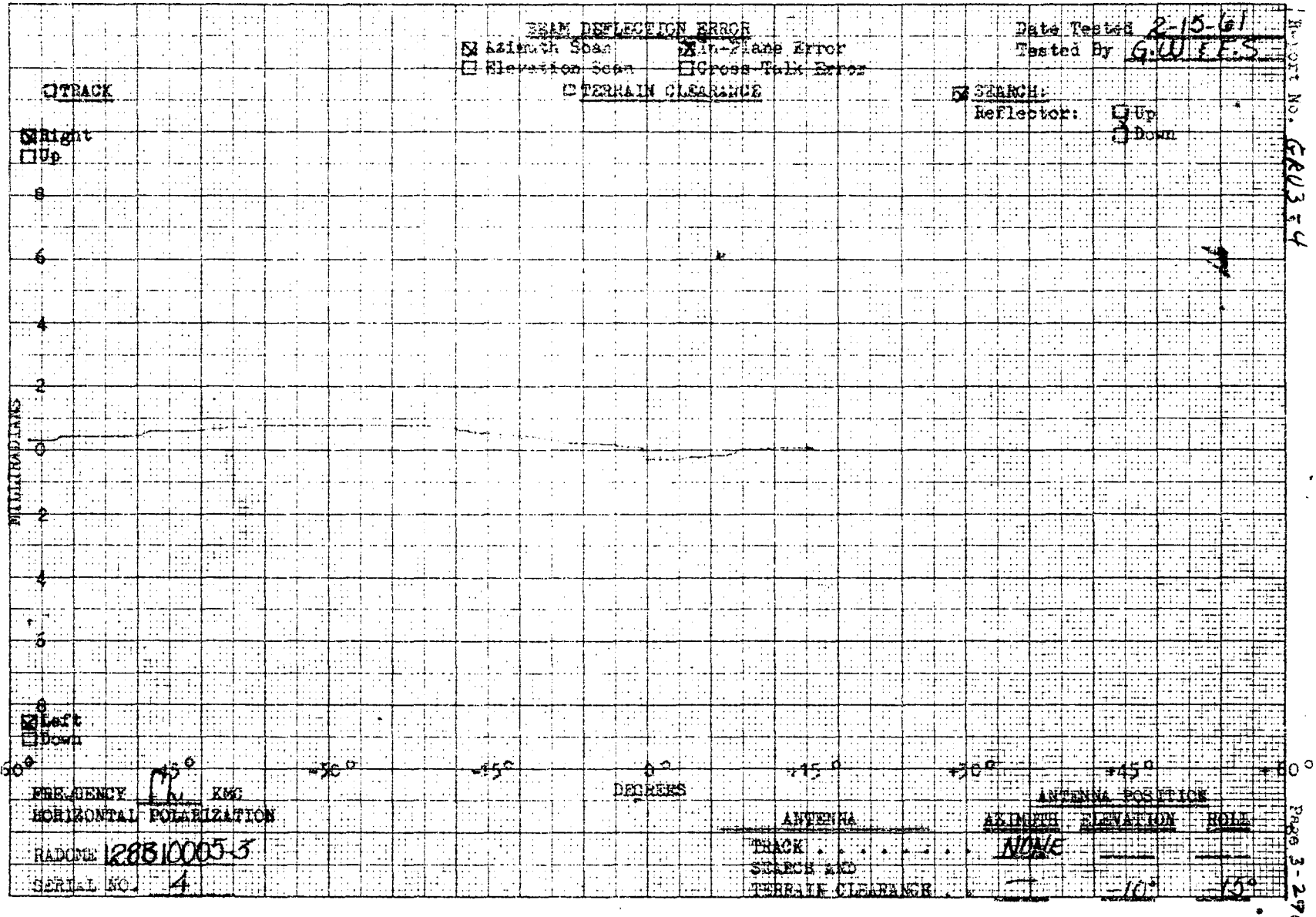
P-E

Page 3-292


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By G.W.E.S.
TRACK
Right
Up
SEARCH
Reflector: Up
Down
MILLIRADIANS
6
4
2
0
2
4
6
Left
Down
-60°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Ch KMC
HORIZONTAL POLARIZATION
RADOME 28B10005-3
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK NONE
SEARCH AND TERRAIN CLEARANCE +15° -15°
Report No. GEM3-4
Page 3-293
P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Tilt Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By G.U.E.S.
TRACK
Right
Up
SEARCH
Reflector:
Up
Down
MILLIRADIANS
6
5
4
2
0
2
4
6
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY fh KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-5
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
0°
-15°
P-E
Report No. GRU3-4
Page 3-294


BEAM DEFLECTION ERROR
☒ Azimuth Scan
☐ Elevation Scan
☒ In-Plane Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GUILES
☐ TRACK
☒ Right
☐ Up
☒ SEARCH
Reflector: ☐ Up ☒ Down
8
6
4
2
0
2
4
6
8
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 17k MC
HORIZONTAL POLARIZATION
RADOME 1288 10005-5
SERIAL NO. 1
ANTENNA
TRACK
SEARCH AND TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
NONE
5°
45°
P.E.
GEU3-4
3-295


BEAM DEFLECTION ERROR
☒ Azimuth Scan
☐ Elevation Scan
☒ In-Plane Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By G.W.E.S.
Report No. GRW3-54
☐ TRACK
☒ Right
☐ Up
☒ SEARCH:
Reflector: ☐ Up
☐ Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 1285100053
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK NOSE
SEARCH AND TERRAIN CLEARANCE -10° 15°

P.E

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-64

Tested By G.W.T.C.

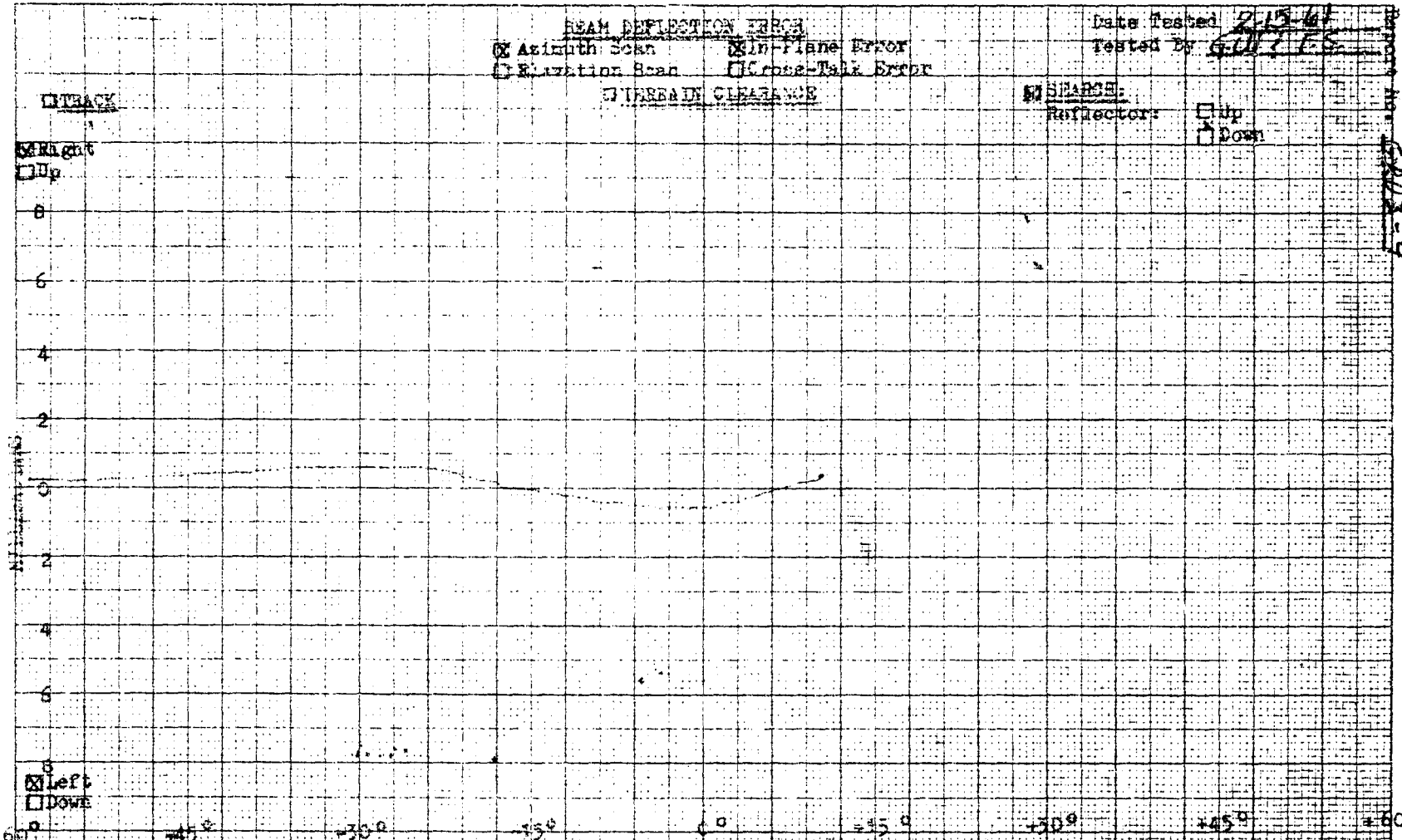
☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflector: ☐ Up ☒ Down



FREQUENCY 15 KMC

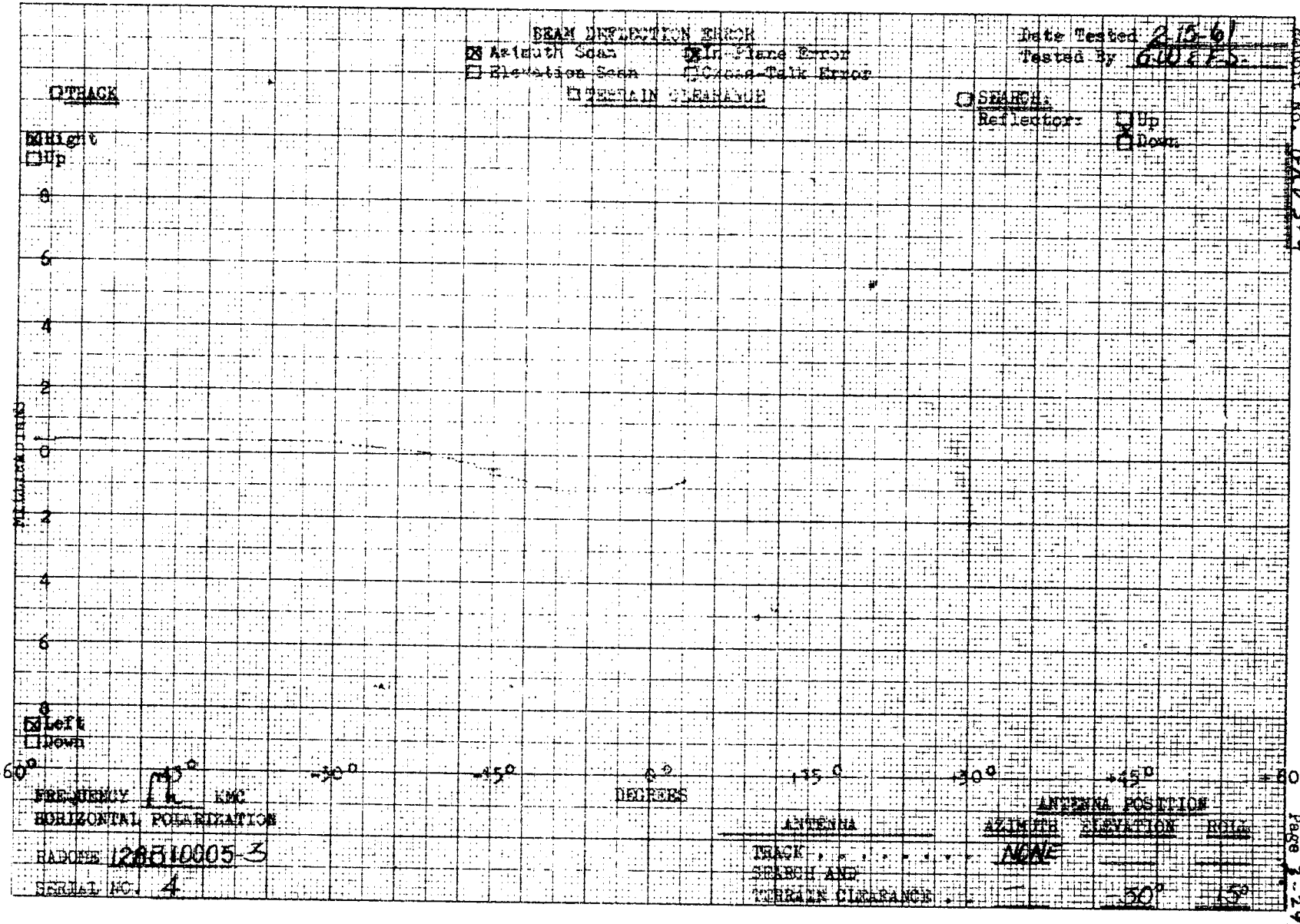
HORIZONTAL POLARIZATION

RADOME 1286 10035-3

SERIAL NO. 4

ANTENNA POSITION	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	—	-20°	-15°

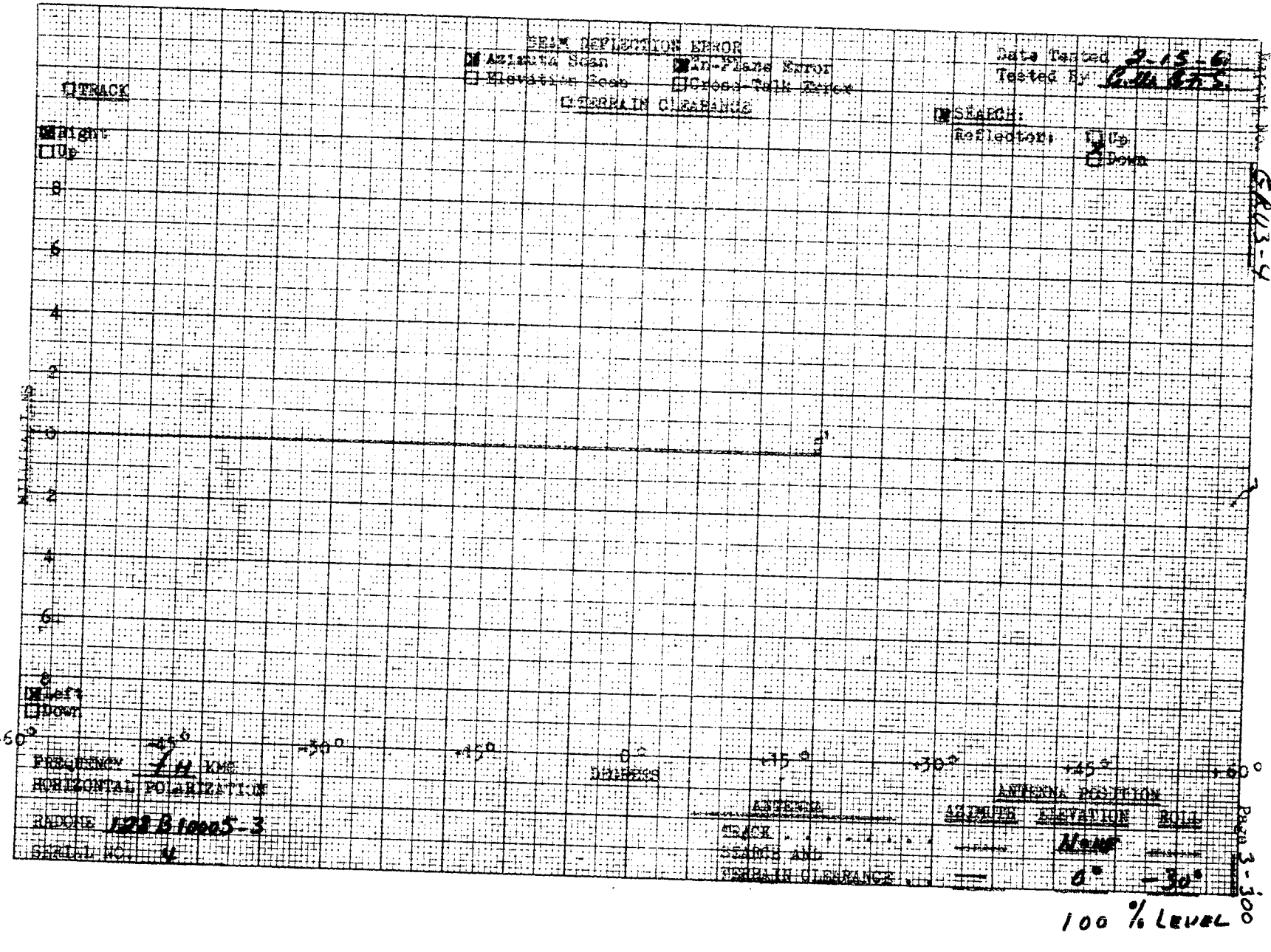
Page 3-297


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By G.W.E.
Report No. GAU3-4
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIAMPERES
0
2
4
6
8
Left
Down
-60°
-30°
-45°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY 15° KMC
HORIZONTAL POLARIZATION
RADOME 1286 10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
AGAE
-50°
-15°
P-E
Page 7-298

SECTION 4.3

SEARCH ANTENNA BORESIGHT ERROR

F_H @ -30° ROLL, REFLECTOR MID POSITION


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-6
Tested By
TRACK
Right
Up
Left
Down
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 1.4 KMC
HORIZONTAL POLARIZATION
RADOME 128 Block 5-3
SERIAL NO. 4
BORESIGHT
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
Normal
0° -30°
Page 3-300
100 % LEVEL

KEUFFEL & ESSER CO. 10 X 10 TO THE INCH 352-11G

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By GW & FS

Report No. GRW3-54

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☐ TRACK

☒ SEARCH:

Reflectors: ☐ Up ☒ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 11 KMC

HORIZONTAL POLARIZATION

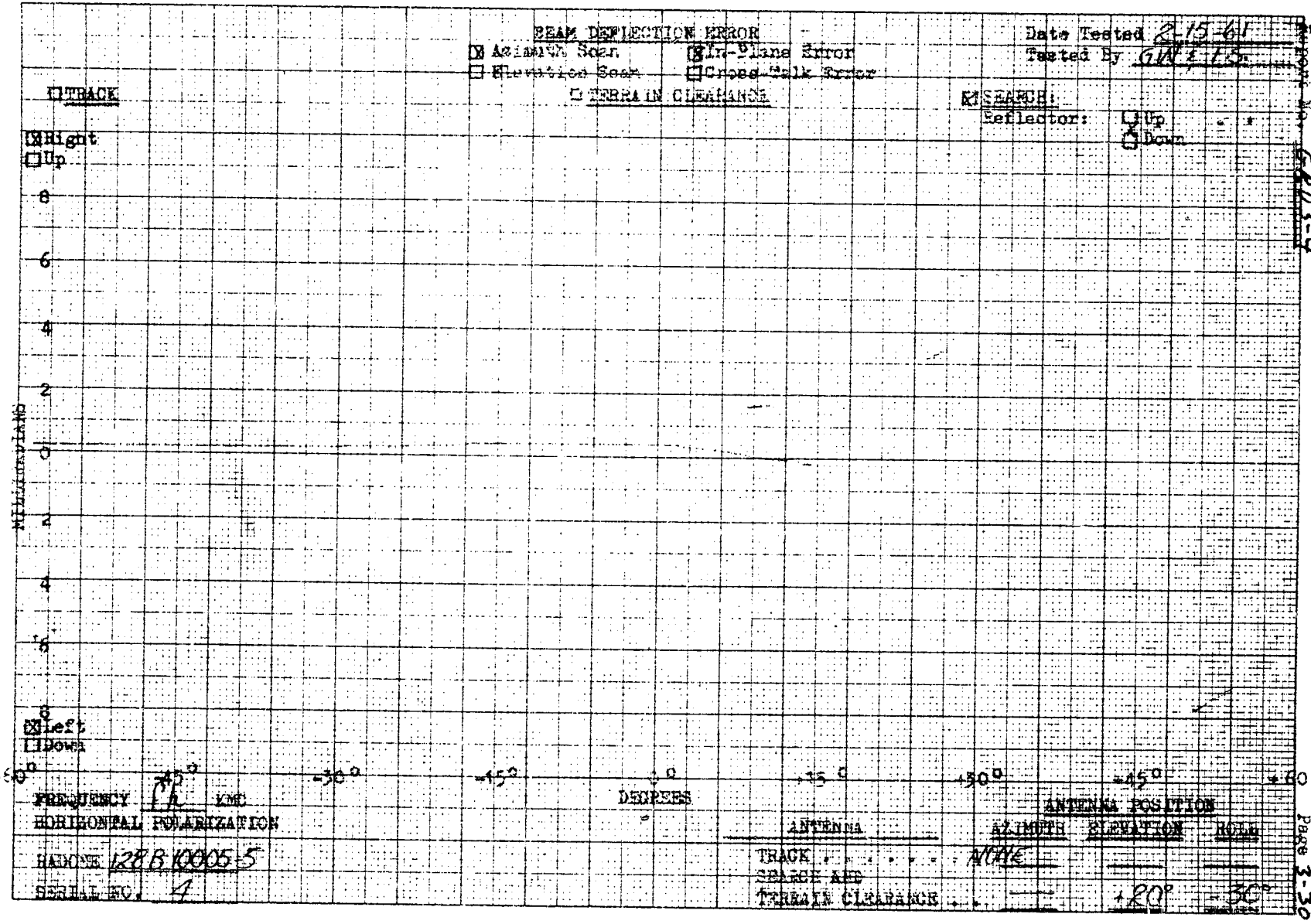
RADOME 1288K0005-3

SERIAL NO. 4

ANTENNA POSITION

	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	+60°	-50°	

P-E


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GW & LS
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY fh MC
HORIZONTAL POLARIZATION
RADOME 128B10005-5
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK . . . . . NONE
SEARCH AND
TERRAIN CLEARANCE . . . +20° -3C°
P.E

KEUFFEL & ESSER CO. 10 X 10 TO THE INCH 359-110

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By GWC EES

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☒ SEARCH: Reflector: ☐ Up ☒ Down

☐ TRACK

☒ Right

☐ Up

Milliradians

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5h KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

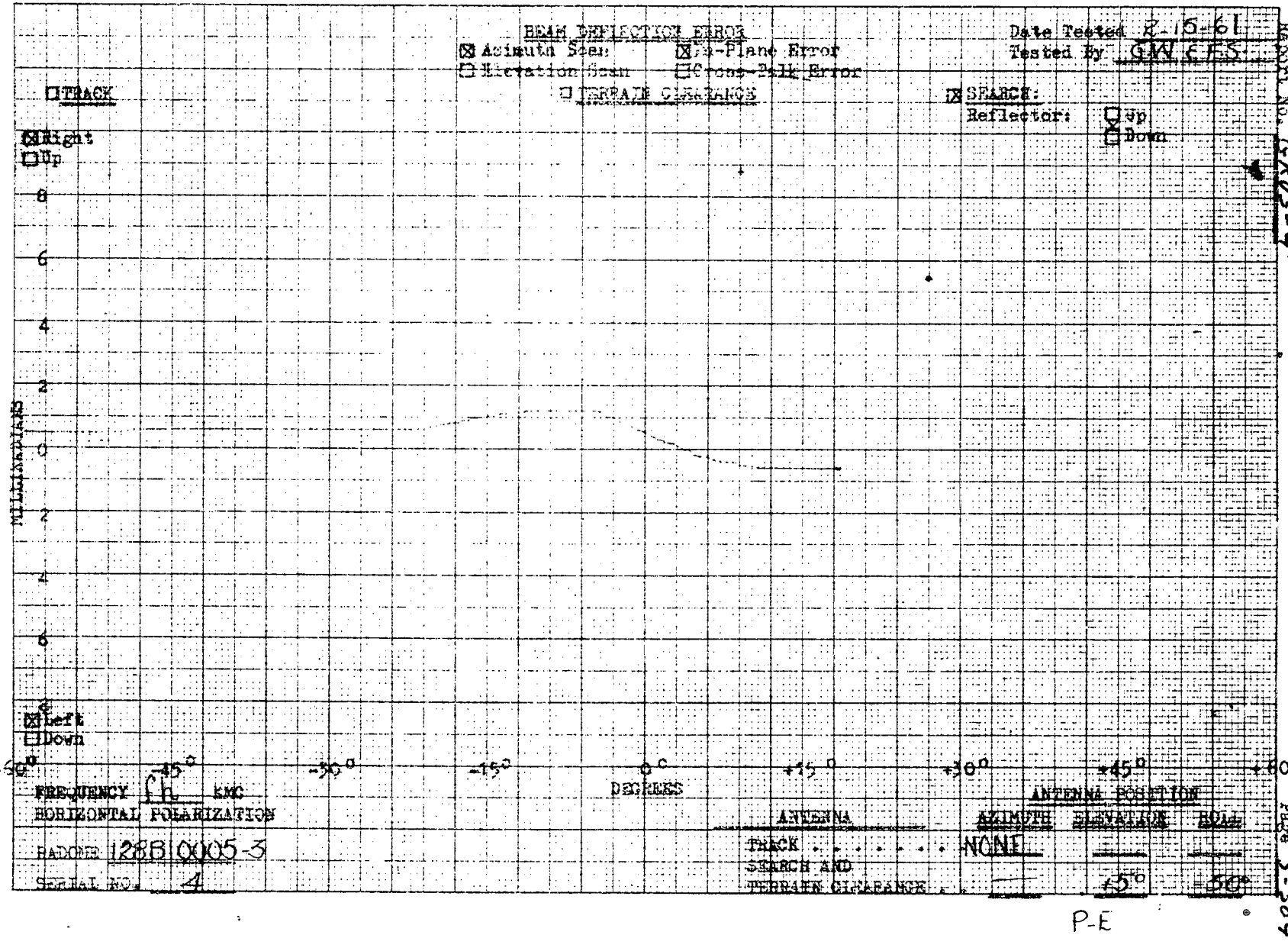
ANTENNA	AZIMUTH	ELEVATION	BEAM
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		+10°	-30°

ANTENNA POSITION

Report No. GEW3-4

Page 3-23

P-E


BEAM DEFLECTION ERROR
Azimuth Beam
Elevation Beam
E-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GW & ES
Report No. SRW3-4
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
MILLIAMPERES
8
6
4
2
0
2
4
6
8
Left
Down
-90°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+90°
DEGREES
FREQUENCY fh KMC
HORIZONTAL POLARIZATION
RADOME 128B0005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK . . . . . NONE
SEARCH AND TERRAIN CLEARANCE . .
+5°
-50°
P-E
Page 3-304

BEAM DEFLECTION ERROR

Date Tested 8-15-61

Tested By GDC FS

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

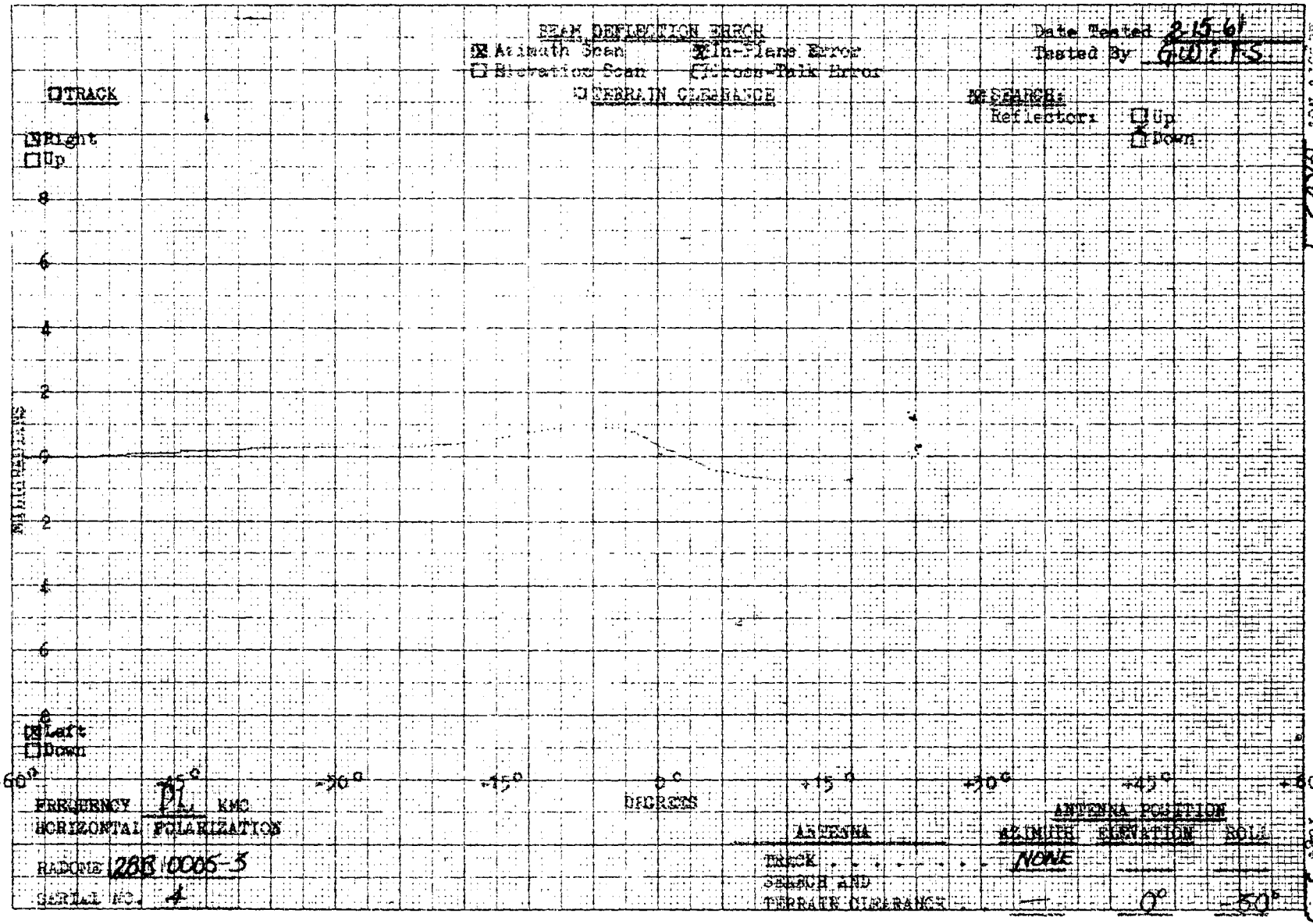
☒ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflector: ☐ Up ☒ Down



FREQUENCY 9375 MC

HORIZONTAL POLARIZATION

RADOME 28B 0006-5

SERIAL NO. 4

ANTENNA POSITION

AZIMUTH ELEVATION ROLL

TRACK - - - - - - - NONE

SEARCH AND TERRAIN CLEARANCE - - - 0° -60°

P-E

Page 3-305

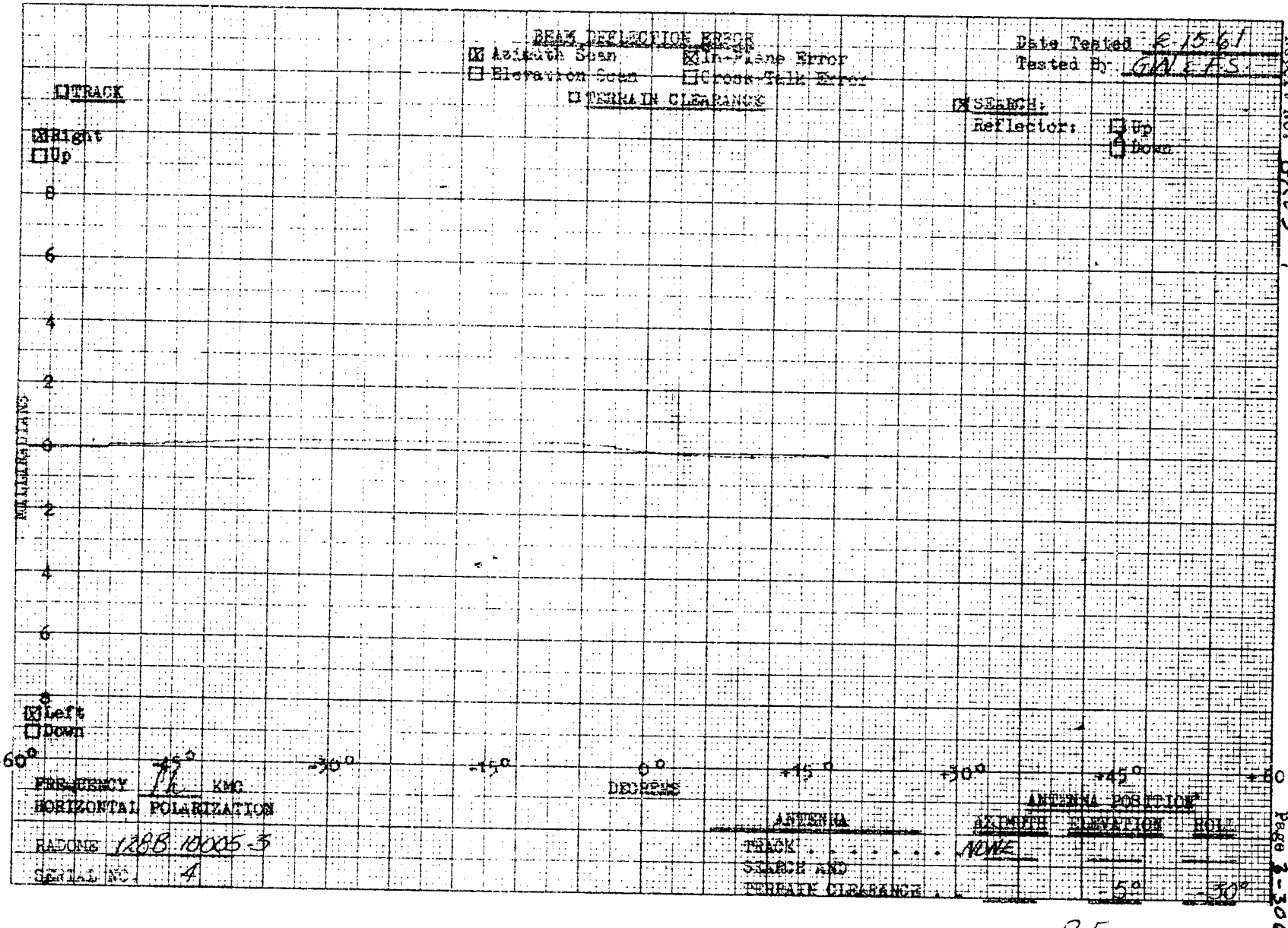
BEAM DEFLECTION ERROR

Date Tested 6-15-61
Tested By GM & FS

☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error
☐ TERRAIN CLEARANCE

☐ TRACK
☒ Right
☐ Up

☒ SEARCH:
Reflector: ☐ Up ☐ Down



☒ Left
☐ Down

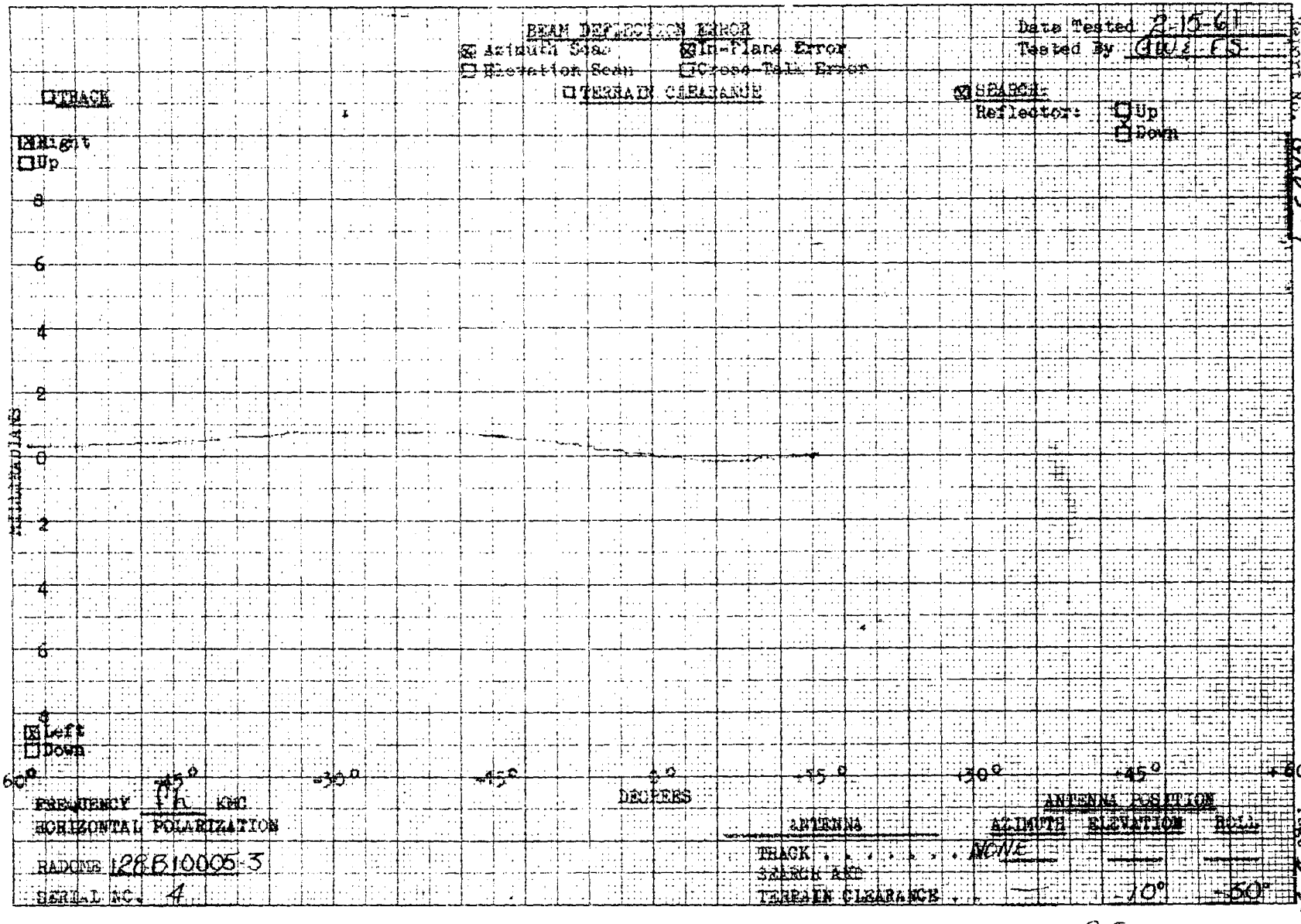
FREQUENCY 11 KMC
HORIZONTAL POLARIZATION

RADOME 128B 10005-3
SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	-5°	-30°	

PE


BEAM DEFLECTION ERROR
☒ Azimuth Scan
☐ Elevation Scan
☒ In-Flare Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-16-61
Tested by GRUEFS
☐ TRACK
☒ SEARCH
Reflector: ☐ Up ☒ Down
☒ Right
☐ Up
8
6
4
2
0
2
4
6
8
MILLIRADIANS
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 14 KMC
HORIZONTAL POLARIZATION
RADOME 28B10005-3
SERIAL NO. 4
ANTENNA POSITION
ANTENNA AZIMUTH ELEVATION ROLL
TRACK . . . . . NONE
SEARCH AND
TERRAIN CLEARANCE . . . -10° -30°
Report No. GRU3-4
Page 3-307
P.E

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By GWL

Report No. 6202-4

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Tely Error

☐ TERRAIN CLEARANCE

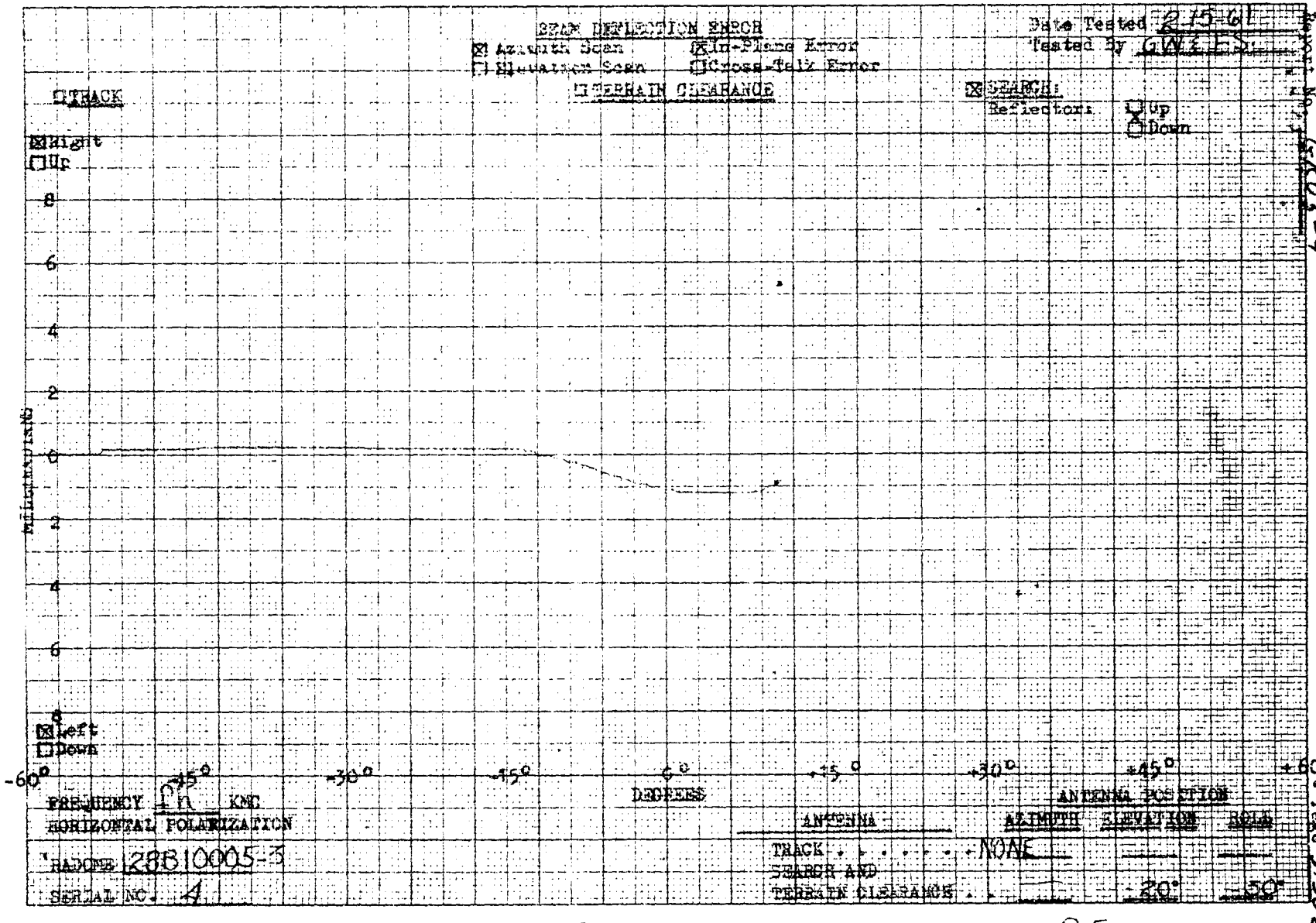
☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflectors ☒ Up ☐ Down



FREQUENCY 5.45 KMC

HORIZONTAL POLARIZATION

RADOME 28B10005-3

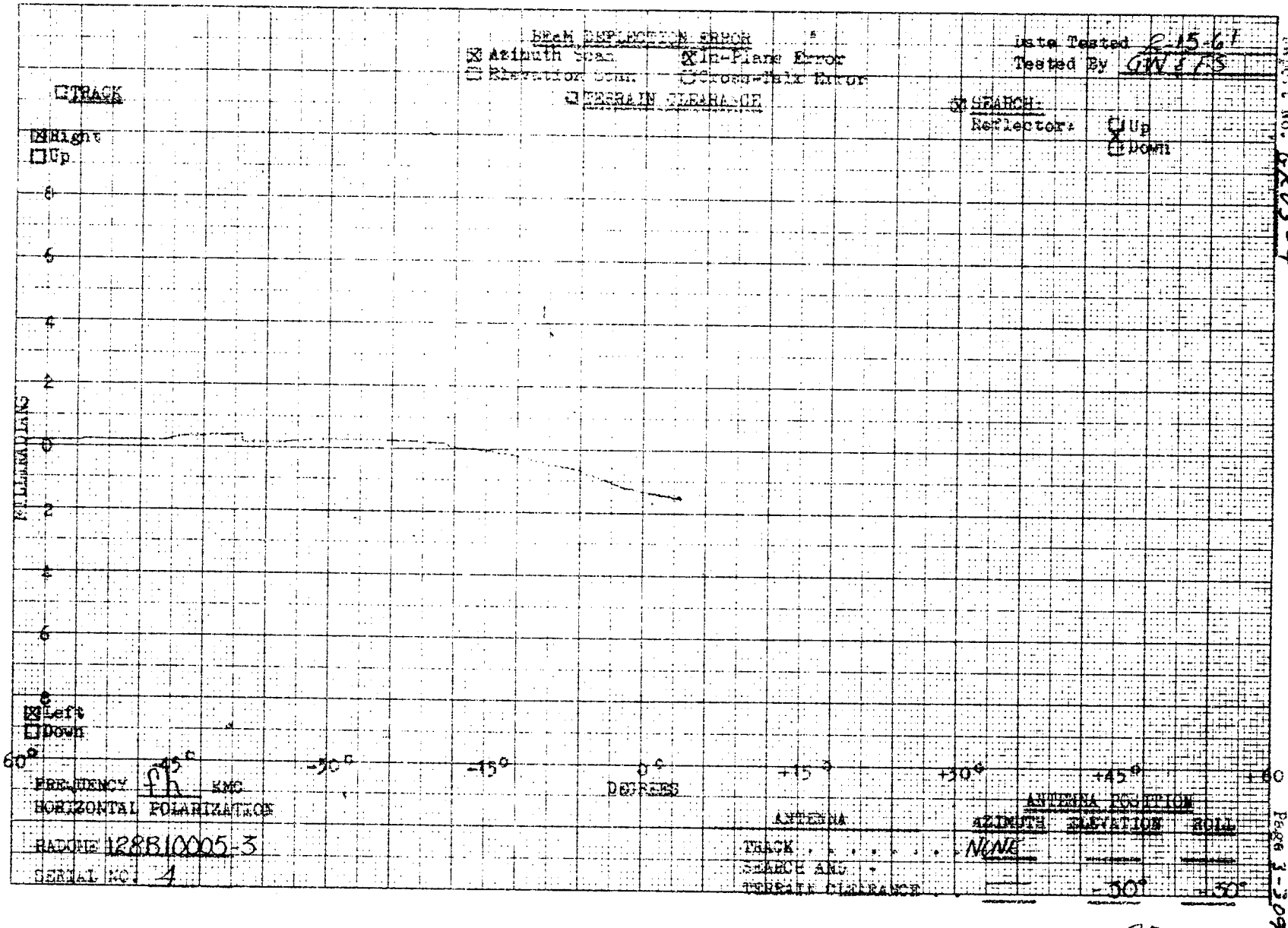
SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		-20°	-50°

PE

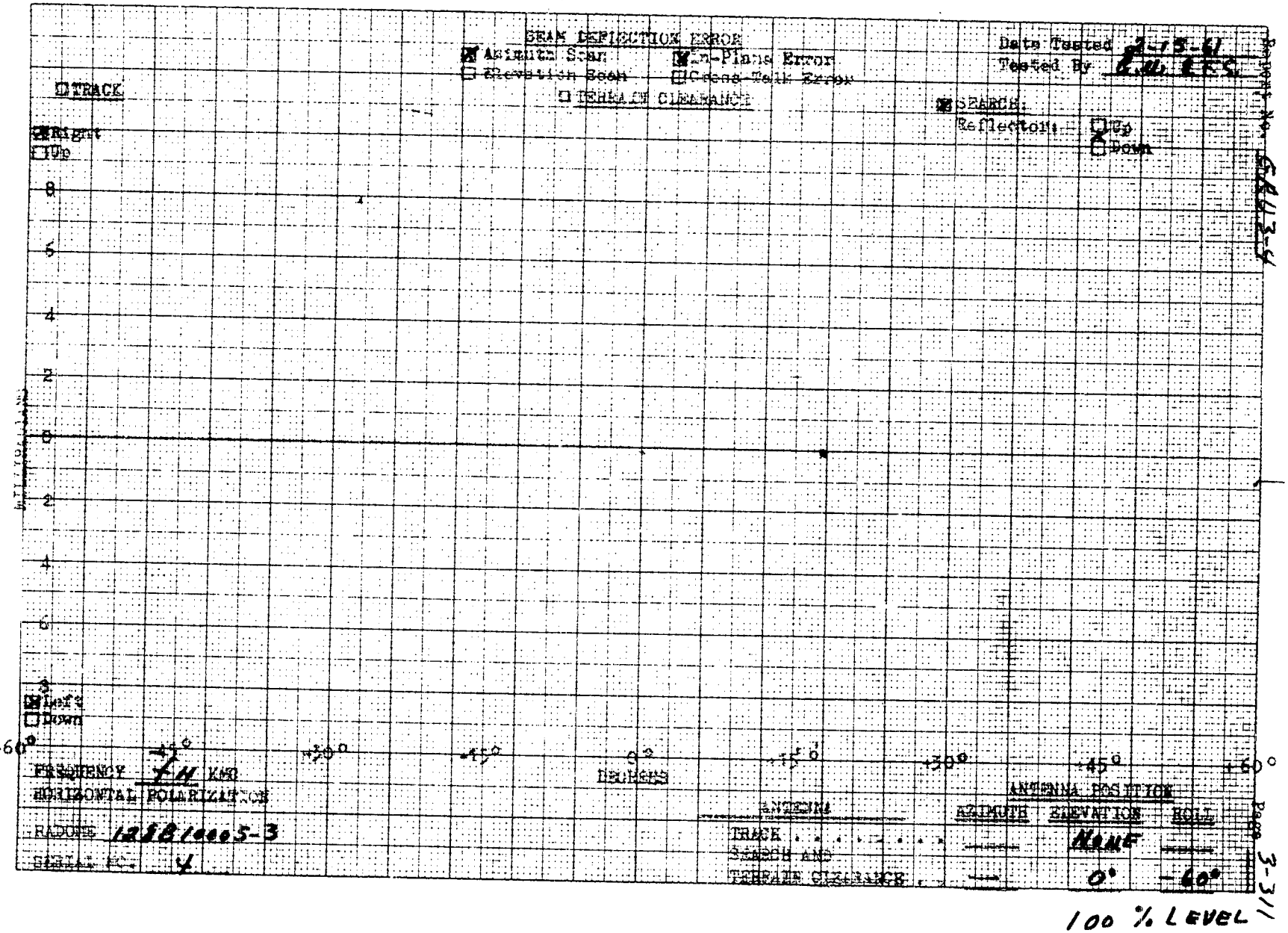
Page 3-308


BEAM DEFLECTION ERROR
☒ Azimuth Beam
☐ Elevation Beam
☒ In-Plane Error
☐ Cross-Talk Error
☐ TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By GW & FS
☐ TRACK
☒ Right
☐ Up
☒ SEARCH
Reflector:
☐ Up
☐ Down
Report No. GRU3-4
MILLIAMPERES
8
6
4
2
0
2
4
6
☒ Left
☐ Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY fh KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-3
SERIAL NO. 4
ANTENNA
TRACK . . . . . NONE
SEARCH AND TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-30° +30°
Page 3-309
PE

SECTION 44

SEARCH ANTENNA BORESIGHT ERROR

F_H @ -60° ROLL, REFLECTOR MID POSITION


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By C.W. & E.S.
TRACK
Right
Up
SEARCH:
Reflection:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 7H KMC
HORIZONTAL POLARIZATION
RADOME 1258 1005-3
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
Manual
0° -60°
Page 3-311
100 % LEVEL

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Axis Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61

Tested By G W & F S.

Report No. GRU3-4

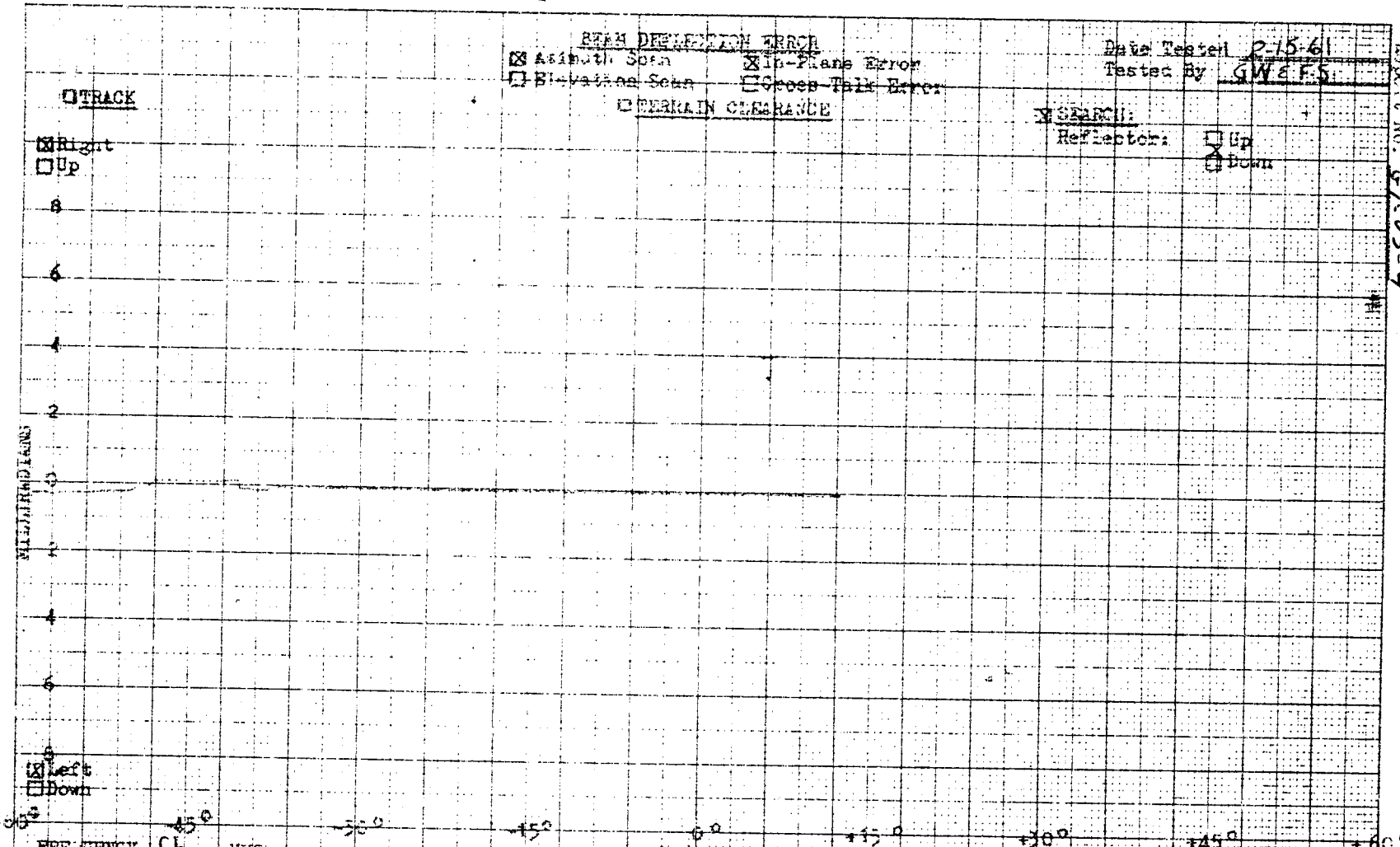
☐ TRACK

☒ Right

☐ Up

☒ SEARCH:

Reflector: ☐ Up ☐ Down



☒ Left

☐ Down

FREQUENCY fh MC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	ANTENNA POSITION		
	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	±30°	60°	

RE

Page 3-317

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61

Tested By G.W. & E.S.

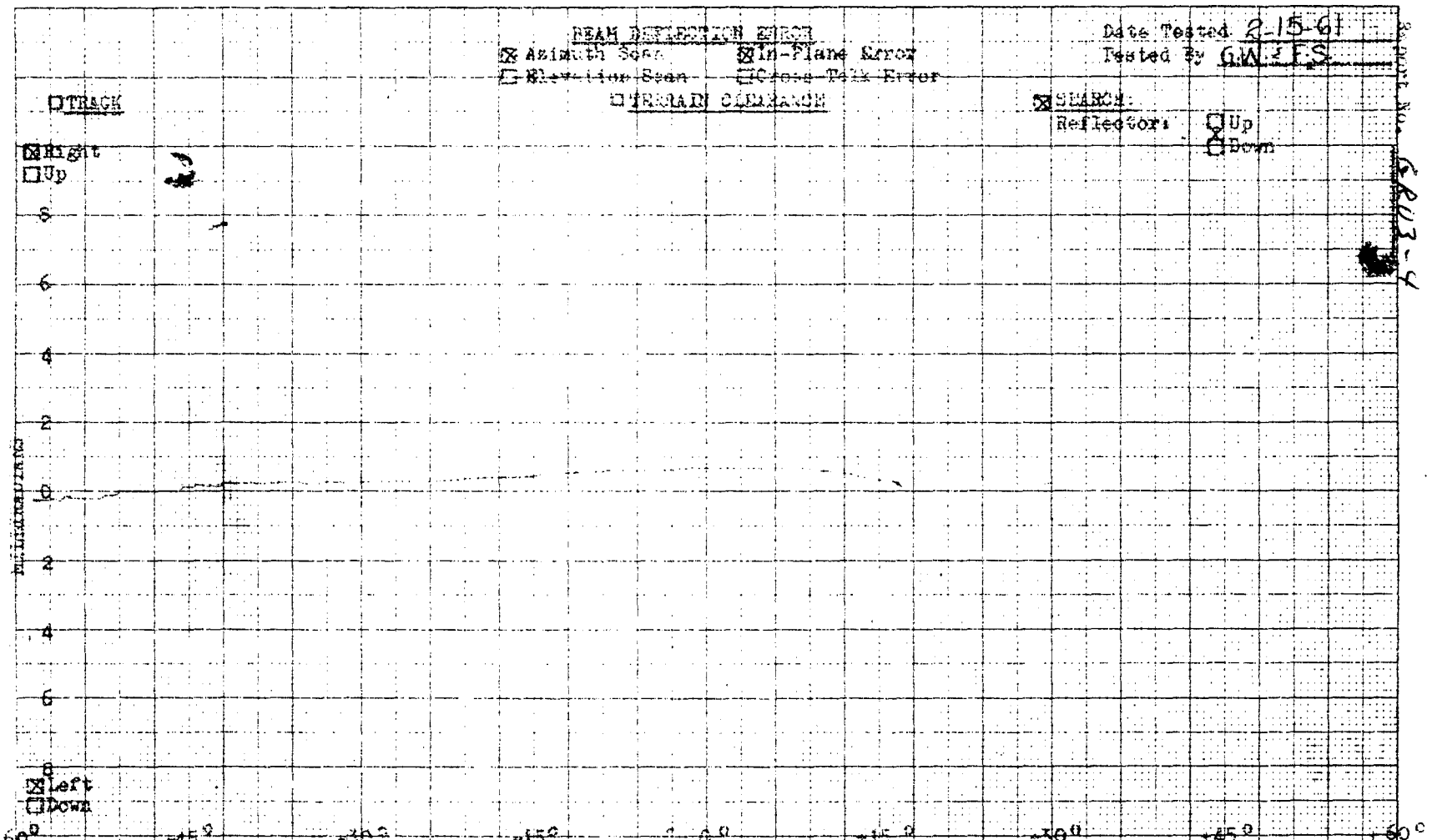
☐ TRACK

☒ SEARCH:

Reflectors: ☐ Up ☒ Down

☒ Right

☐ Up



☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh MC

HORIZONTAL POLARIZATION

RADOME 1285 10005-3

SERIAL NO. A

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AID			
TERRAIN CLEARANCE . .		+20°	-60°

Report No. GRU3-4

Page 3-3/3

P-E

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By G.W. & F.S.

☒ Azimuth Scan ☒ Lt-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

☐ TRACK

☒ SEARCH

Reflector: ☐ Up ☐ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

MILLIRADIANS

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh MC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE	—	+10°	-60°

P-E

GRU-4

3-3-61

BEAM DEPLETION ERROR

☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error

Date Tested 2-15-61
Tested By G.W. & F.S.

☐ TRACK ☐ TERRAIN CLEARANCE ☒ SEARCH: Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

ELEVATION

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh MC
HORIZONTAL POLARIZATION

RADOME 128B10005-3
SERIAL NO. 4

ANTENNA POSITION	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		+5°	60°

P-E

Form No. 6443-4

Page 3-3/5

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By GW.E.F.S.

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Pole Error

☐ TERRAIN CLEARANCE

☐ TRACK ☒ SEARCH: Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

MILLIRADIANS

8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-3

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH			
TERRAIN CLEARANCE		0°	-60°

P.E

Page 3-316

GW 3-4

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By G.W.S. ES

☒ Azimuth Scan ☒ H-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TRACK ☐ TERRAIN CLEARANCE ☒ SPARCE:

Reflector: ☐ Up ☐ Down

☒ Right
☐ Up

MILLIRADIANS

8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY Fb MC

HORIZONTAL POLARIZATION

RADOME 128B 100053

SERIAL NO. 4

ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AID			
TERRAIN CLEARANCE		-5°	-60°

F-E

6613-4

Page 3-317

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ In-Plane Error
☐ Elevation Scan ☐ Cross-Pole Error

Date Tested 2-15-61
Tested By G.U. & F.S.

☐ TRACK

TERRAIN CLEARANCE

☒ SEARCH
Reflector: ☐ Up ☒ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

Millidegrees

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5h MC
HORIZONTAL POLARIZATION

RADOME 128B10005-3
SERIAL NO. 4

ANTENNA	ANTENNA POSITION		
	AZIMUTH	ELEVATION	ROLL
TRACK	NONE		
SEARCH AND TERRAIN CLEARANCE		-10°	-60°

RE

Project No. GEU3-4

Page 3-318

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By GWA PS

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TRACK ☐ TERRAIN CLEARANCE ☒ SEARCH:

Reflector: ☐ Up ☒ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

MILLIRADIANS

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY fh MC

HORIZONTAL POLARIZATION

RADOME 128B10005-5

SERIAL NO. A

ANTENNA	ANTENNA POSITION AZIMUTH	ELEVATION	ROLL
TRACK	NONE	—	—
SEARCH AND TERRAIN CLEARANCE	—	-20	-60°

P.E

GRU3-4

Page 3-319

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ X-Y Plane Error

☐ Elevation Scan ☐ Cross-Talk Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61

Tested By GW. & PS

☐ TRACK

☒ Right

☐ Up

☐ SEARCH

Reflector: ☐ Up ☒ Down

MILLIAMPERES

e

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5.4 KMC

HORIZONTAL POLARIZATION

RADOME 128B10005-5

SERIAL NO. 4

ANTENNA

TRACK . . . . . NONE

SEARCH AND TERRAIN CLEARANCE . . -30° -60°

ANTENNA POSITION

AZIMUTH ELEVATION HOLE

P.E

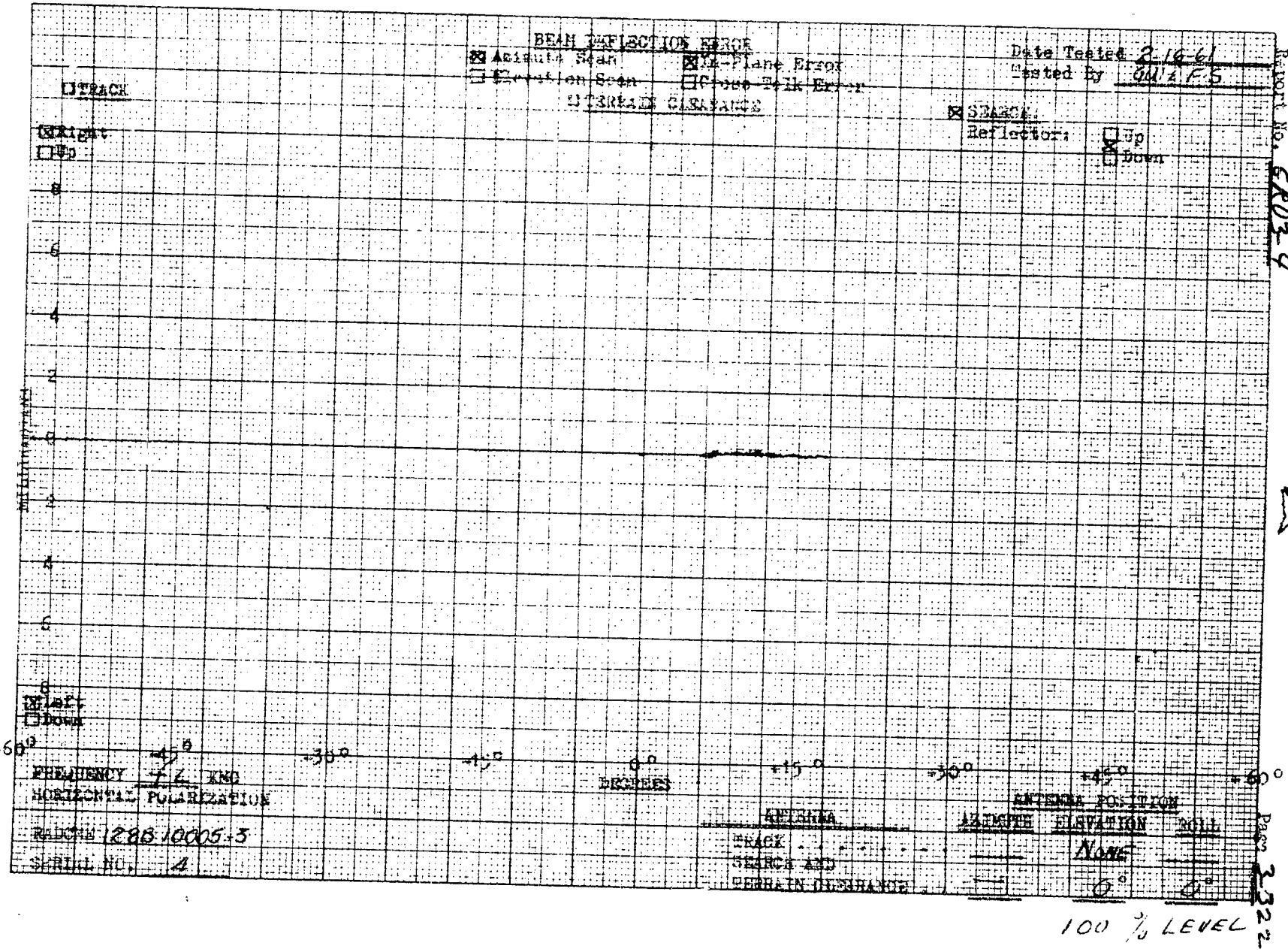
GW 3-4

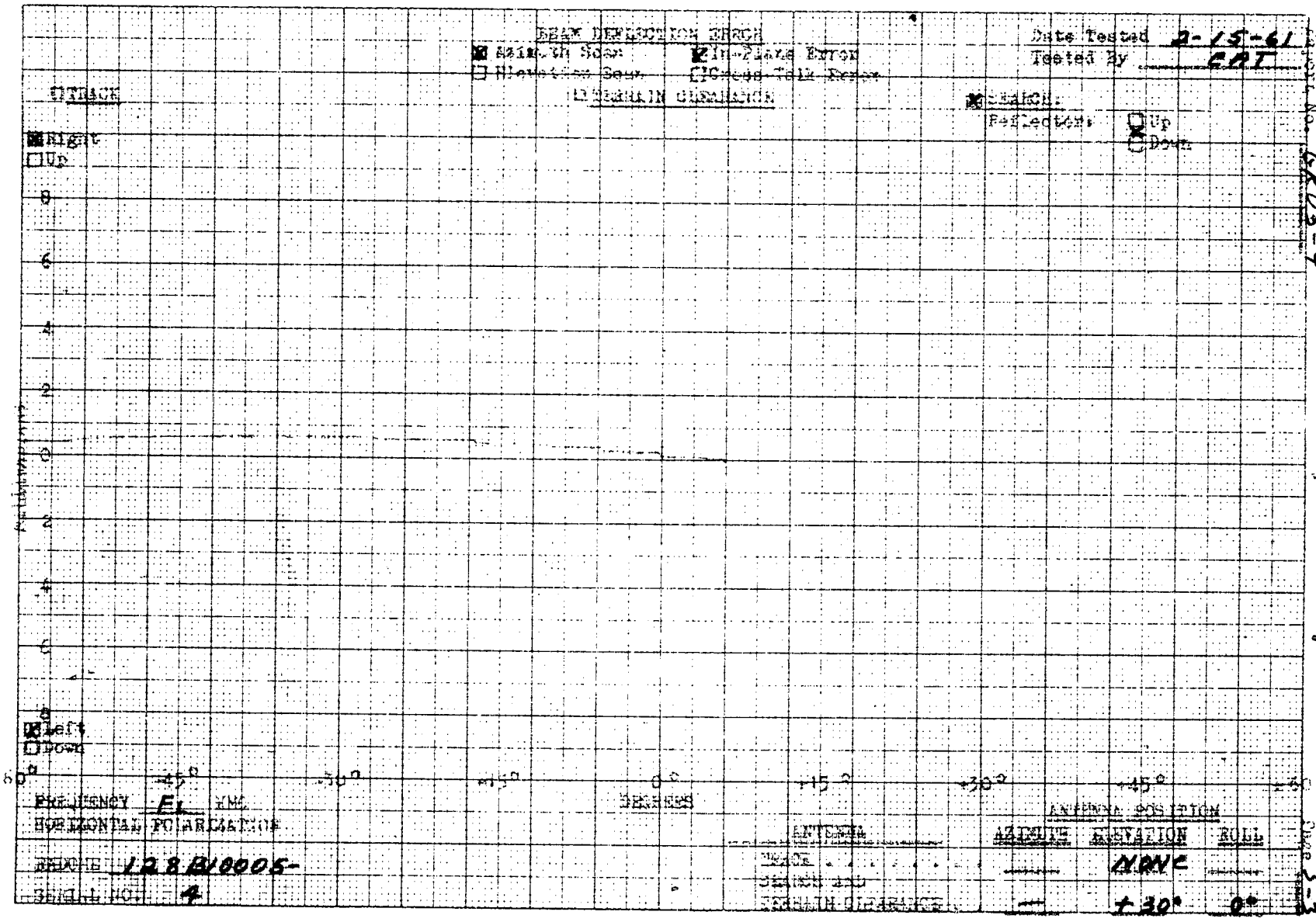
Page 3-320

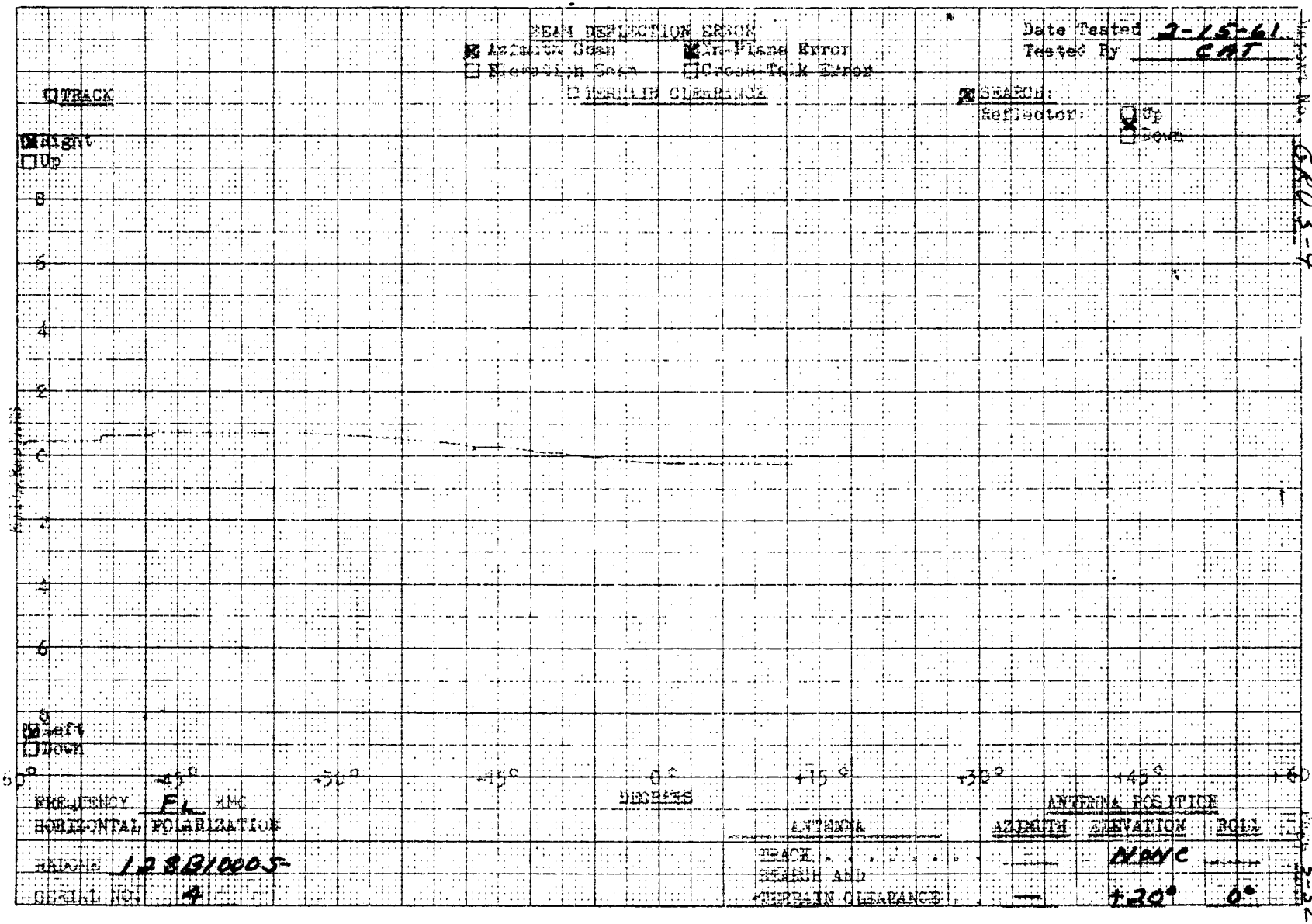
SECTION 45

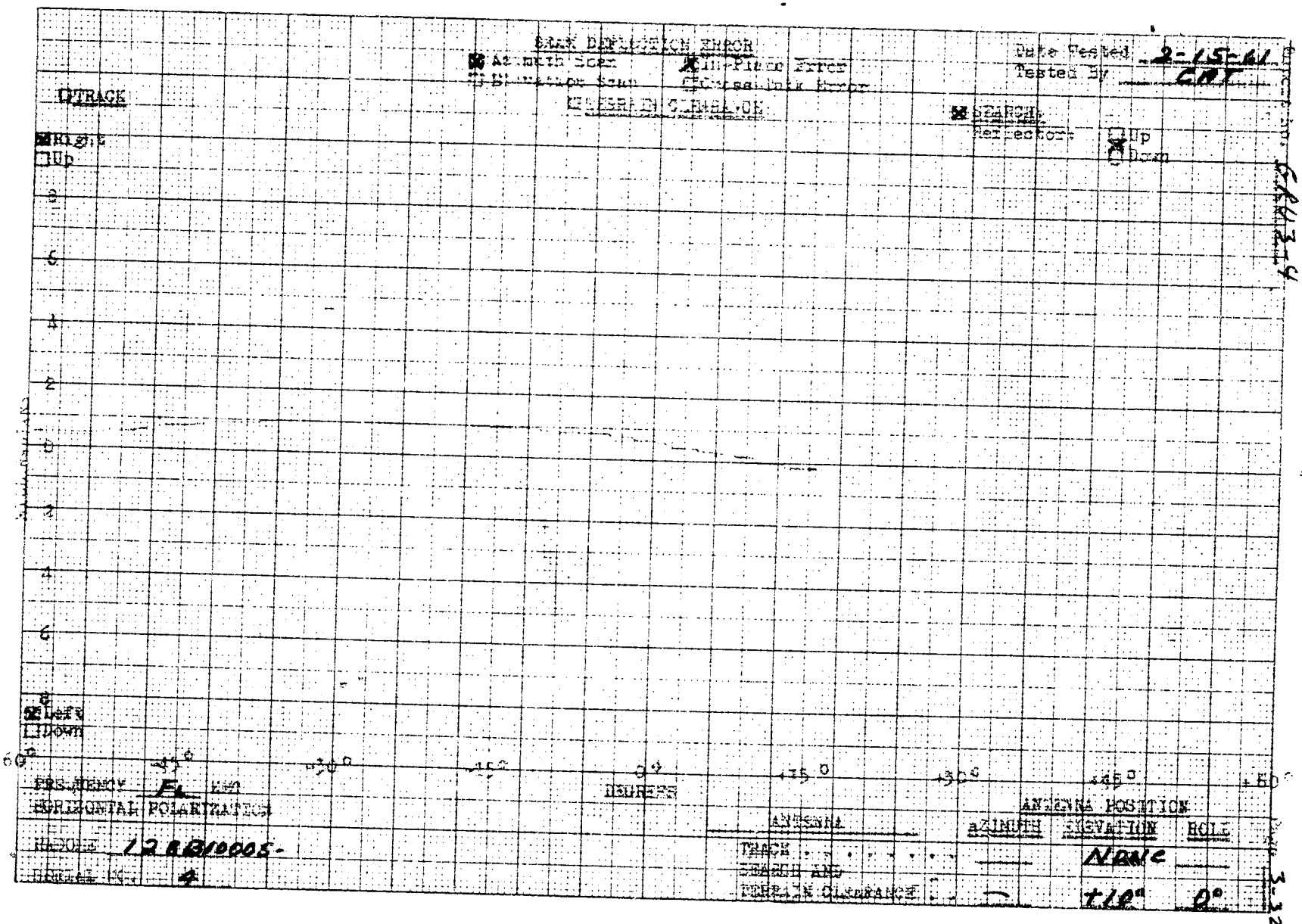
SEARCH ANTENNA BORESIGHT ERROR

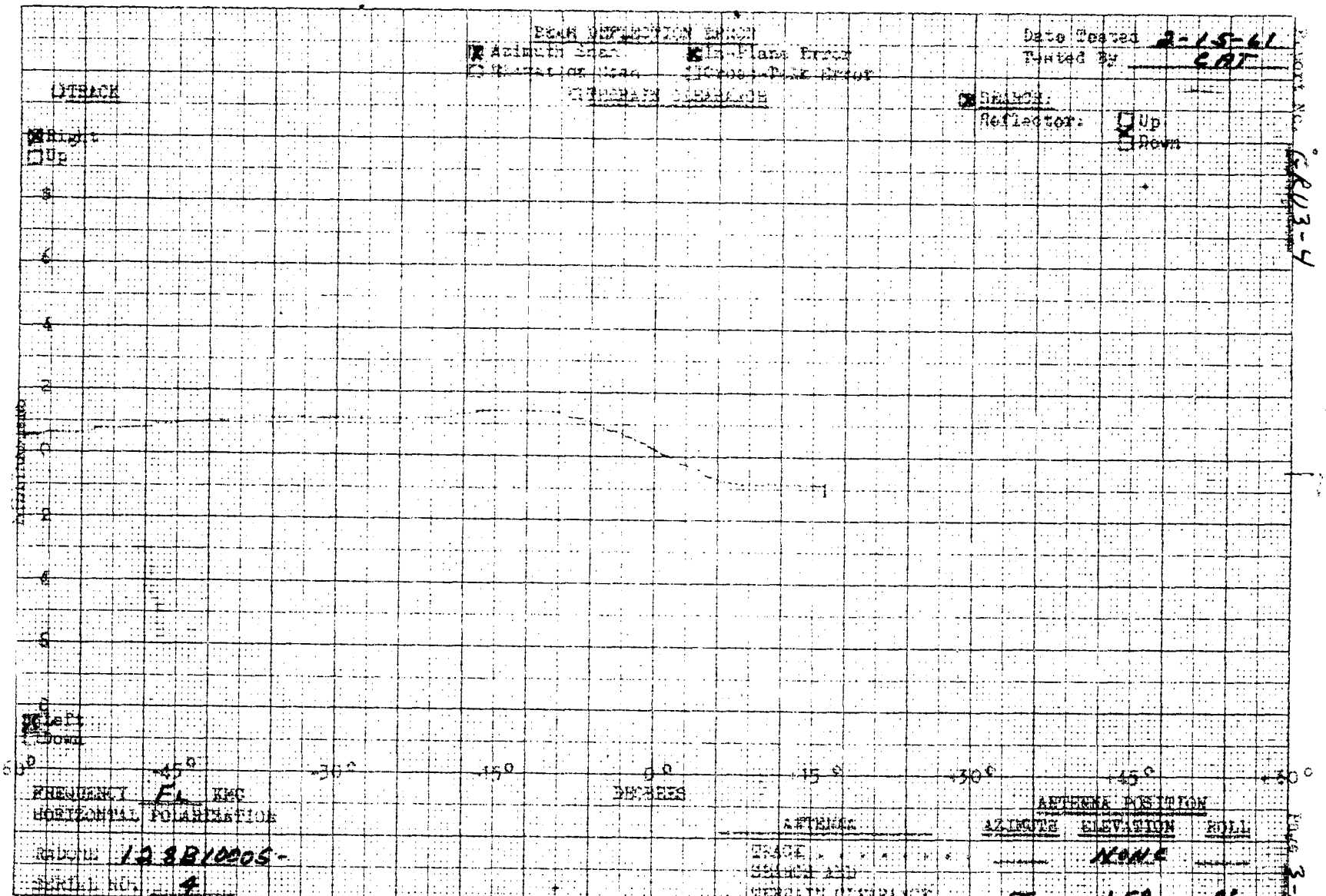
P_L @ 0° ROLL, REFLECTOR MID POSITION


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
TERRAIN CLEARANCE
X-Plane Error
Cross-Talk Error
Date Tested 2-16-61
Tested by GMZ F5
TRACK
Right
Up
STACK
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.6 KMC
HORIZONTAL POLARIZATION
RADOME 288-10005-3
SHELL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
None
0° 4°
Report No. ERU3-4
Page 3222
100 % LEVEL


BEAM DEFLECTION ANGLE
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
ELEVATION
Reflections:
Up
Down
Date Tested 2-15-61
Tested By EAT
TRACK
Right
Up
Left
Down
Decibels
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
SECTORS
FREQUENCY Ex MMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+30° 0°
ANTENNA
SERIAL NO. 4
6803-4
3-323


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Roll-Plane Error
Cross-Talk Error
Terrain Clearance
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fl MC
HORIZONTAL POLARIZATION
SERIAL NO. 4
ANTENNA
BEACH
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
NORM
+20°
0°
GEC 3-4
3-324


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Monopulse Error
Crosslink Error
Date Tested 2-15-61
Tested By GRT
TRACK
Right
Up
Left
Down
Search
Reflector
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fc MC
HORIZONTAL POLARIZATION
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
None
+10° 0°
3-325


Beam Deflection Error
Azimuth Sheet
E-Plane Trace
Elevation Head
H-Plane Trace
Date Tested 2-15-61
Tested By GAT
OTRACK
Right
Up
Branch:
Reflector: Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
15°
30°
45°
60°
DEGREES
FREQUENCY FL MMC
HORIZONTAL POLARIZATION
RADOME 128B10005-
SERIAL NO. 4
ANTENNA
TRACE
BEAM AND
BEAMWIDTH CHARACTER
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
NONE
+5°
0°
GR43-4
3-326

PEAK DEFLECTION ERROR

☒ Antenna Boom ☒ Air-Frame Error
☐ Elevation Boom ☐ Ground-Bank Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61
Tested By [illegible]

☐ TRACK

☒ DIRECTION: Reflector: ☐ Up ☒ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY Fl AND HORIZONTAL POLARIZATION

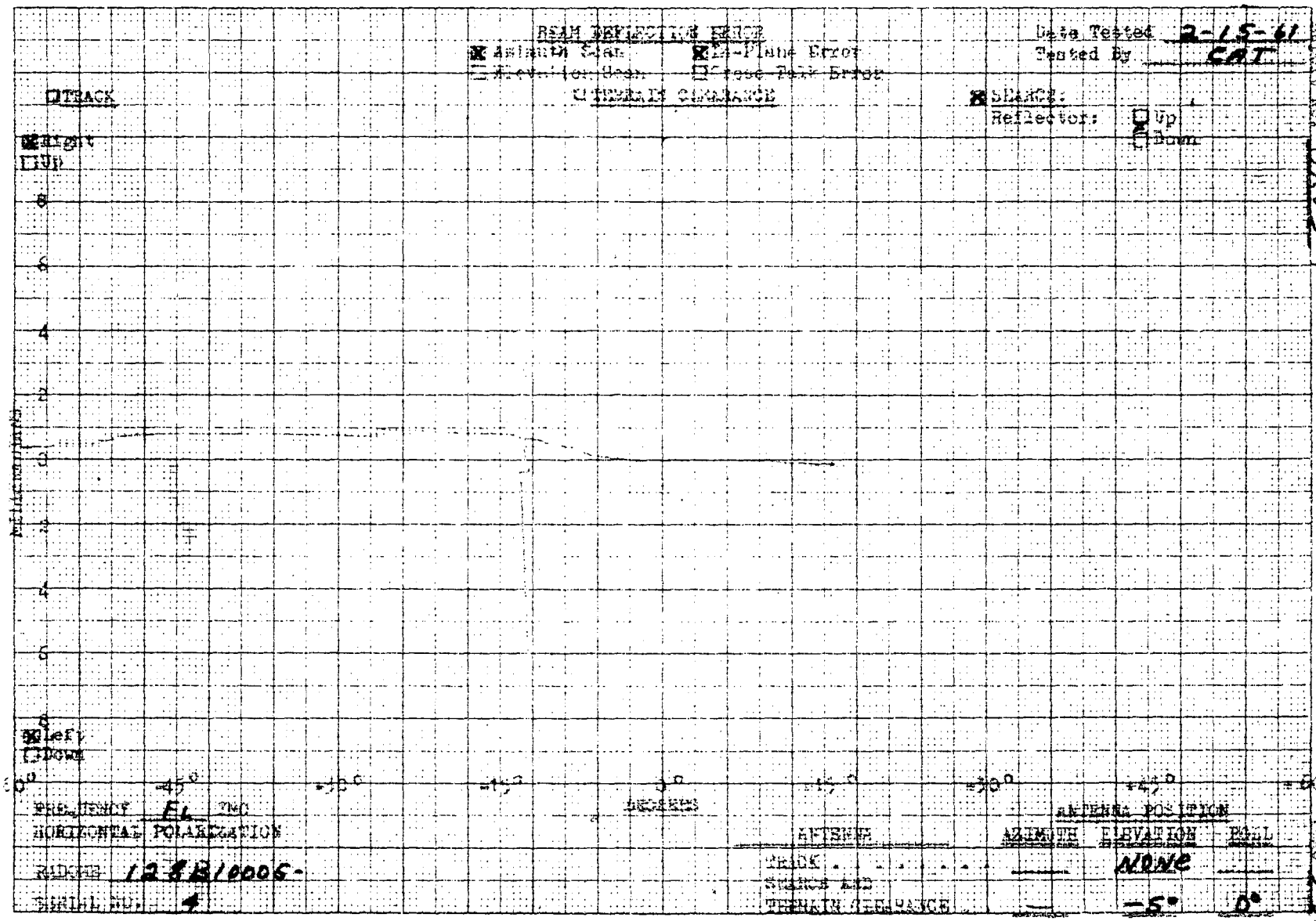
RADOME 128B10005-4

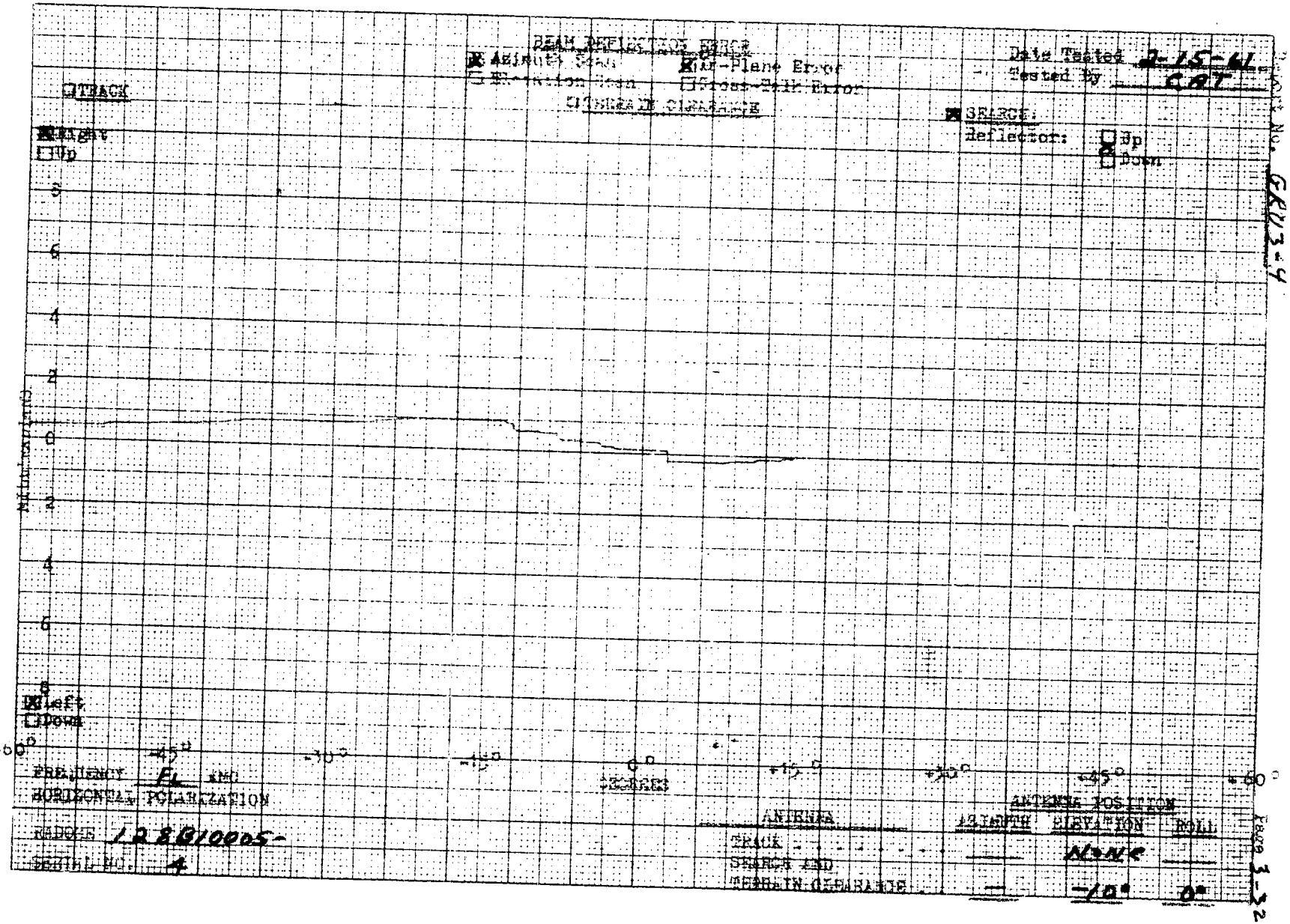
ANTENNA

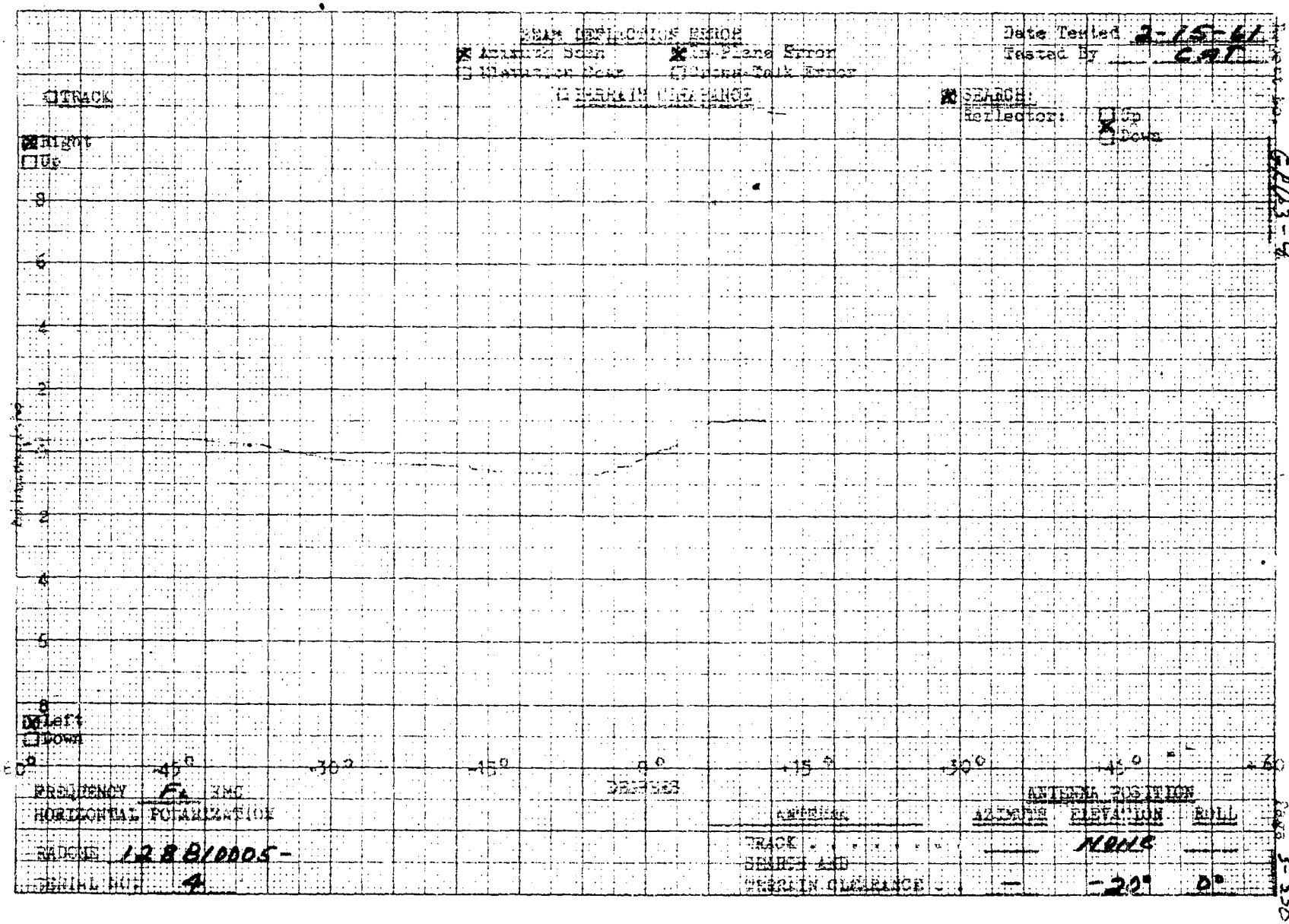
	ANTENNA POSITION		
	AZIMUTH	ELEVATION	TILT
TRUE	—	NONE	—
SIGNAL AT	—	0°	0°
TERRAIN CLEARANCE	—	—	—

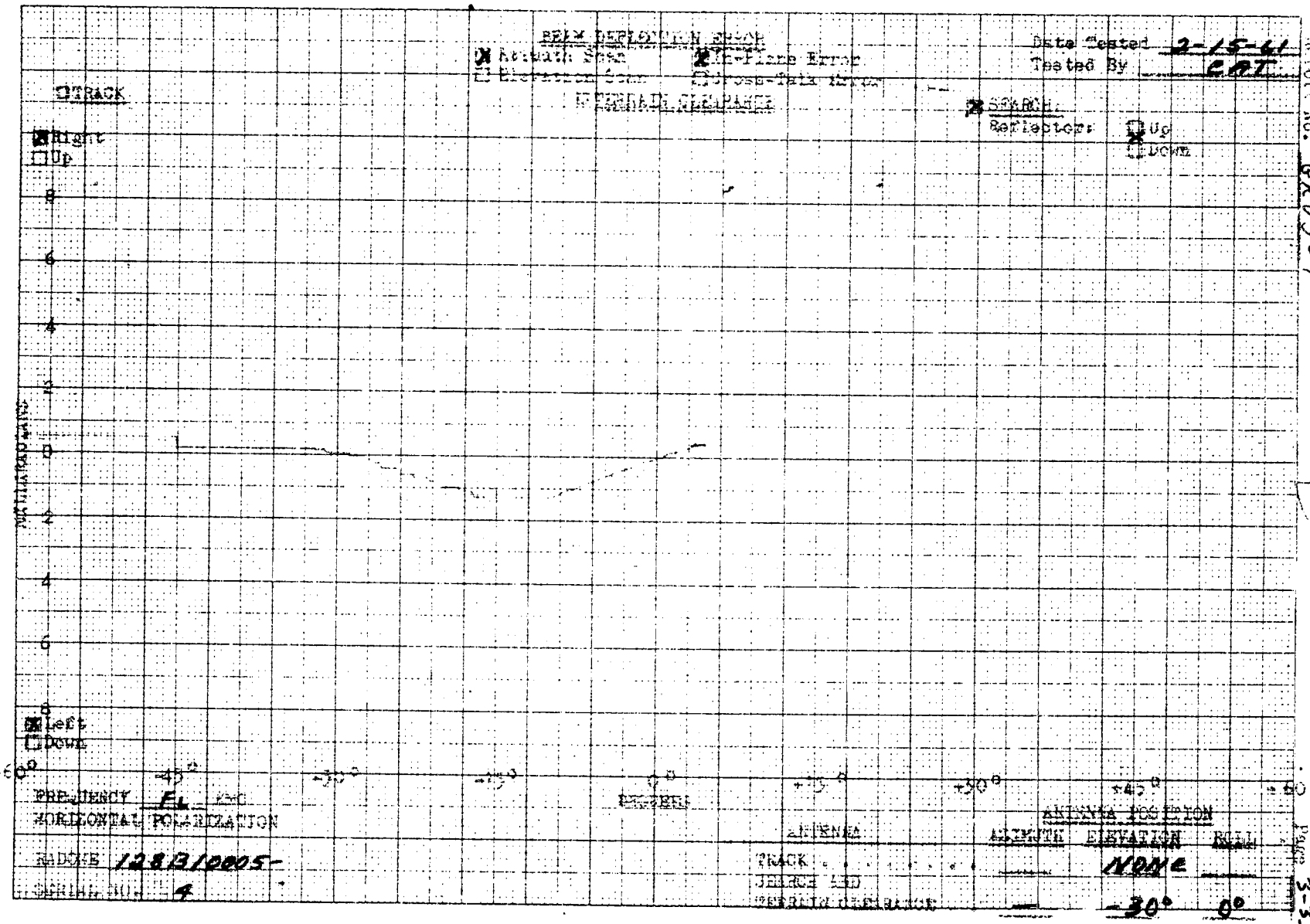
GPL 3-4

3-327


BEAM DEFLECTION ERROR
Azimuth Scan
X-Z Plane Error
Elevation Scan
Rose Petal Error
TERRAIN CLEARANCE
Data Tested 2-15-61
Tested By CAT
TRACK
Right
Up
SPACE:
Reflector:
Up
Down
Left
Down
Milliradians
0
2
4
6
8
-45°
-30°
-15°
0°
+15°
+30°
+45°
DEGREES
RADOME 1248/10006-
SERIAL NO. 4
HORIZONTAL POLARIZATION
ANTENNA
TRACK
SPACE AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
NONE
-5° 0°
GRU3-4
Figure 3-32


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Track
Search
Monopulse
Range
Azimuth
Elevation
Roll
Right
Up
Left
Down
Null Depth (db)
Date Tested 2-15-64
Tested by CAT
Model No. EKU3-4
Reflector: Up Down
Frequency Fk MHz
Horizontal Polarization
Radome 128G10005-
Serial No. 4
Antenna
Track
Search and Monopulse Separate
Antenna Position
Azimuth Elevation Roll
None
-10° 0°
Form 3-329


Date Tested 2-15-61
Tested By CAH
Azimuth Scan
Elevation Plane Error
Elevation Scan
Plane-Split Error
TRACK
BEARING ERROR
SEARCH:
Reflector:
Up
Down
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
DEGREES
+15°
+30°
+45°
+60°
FREQUENCY Fa MC
HORIZONTAL POLARIZATION
RADOME 128B10005-
SERIAL NUM 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
BEARING CLEARANCE
Roll
-20°
0°
6443-4
3-330


BEAM DEFLECTION ANGLE
Azimuth Scan
Elevation Scan
Date Tested 2-15-61
Tested By CRT
TRACK
Right
Up
Left
Down
Reflector:
Up
Down
ANTENNA DISPLACEMENT
FREQUENCY Fb MC
HORIZONTAL POLARIZATION
RADOME 1283/0005-
SERIAL NO. 4
ANTENNA
TRACK
JEERCE LED
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
NONE
-30° 0°
GR 13-4
3-33

SECTION 46

SEARCH ANTENNA BORESIGHT ERROR

F_L @ -15° ROLL, REFLECTOR MID POSITION

10 X 10 TO THE INCH 359-11G

BEAM DEFLECTION SCALE

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cross-Polr Error

☐ TRACK ☐ BORESIGHT ☒ SEARCH

Date Tested 7-15-61

Tested By

Reflector: ☐ Up ☒ Down

☒ Right
☐ Up

8
6
4
2
0
2
4
6
8

☒ Left
☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 4.2 KMC

HORIZONTAL POLARIZATION

RADOME 128B1005-3

SERIAL NO. 4

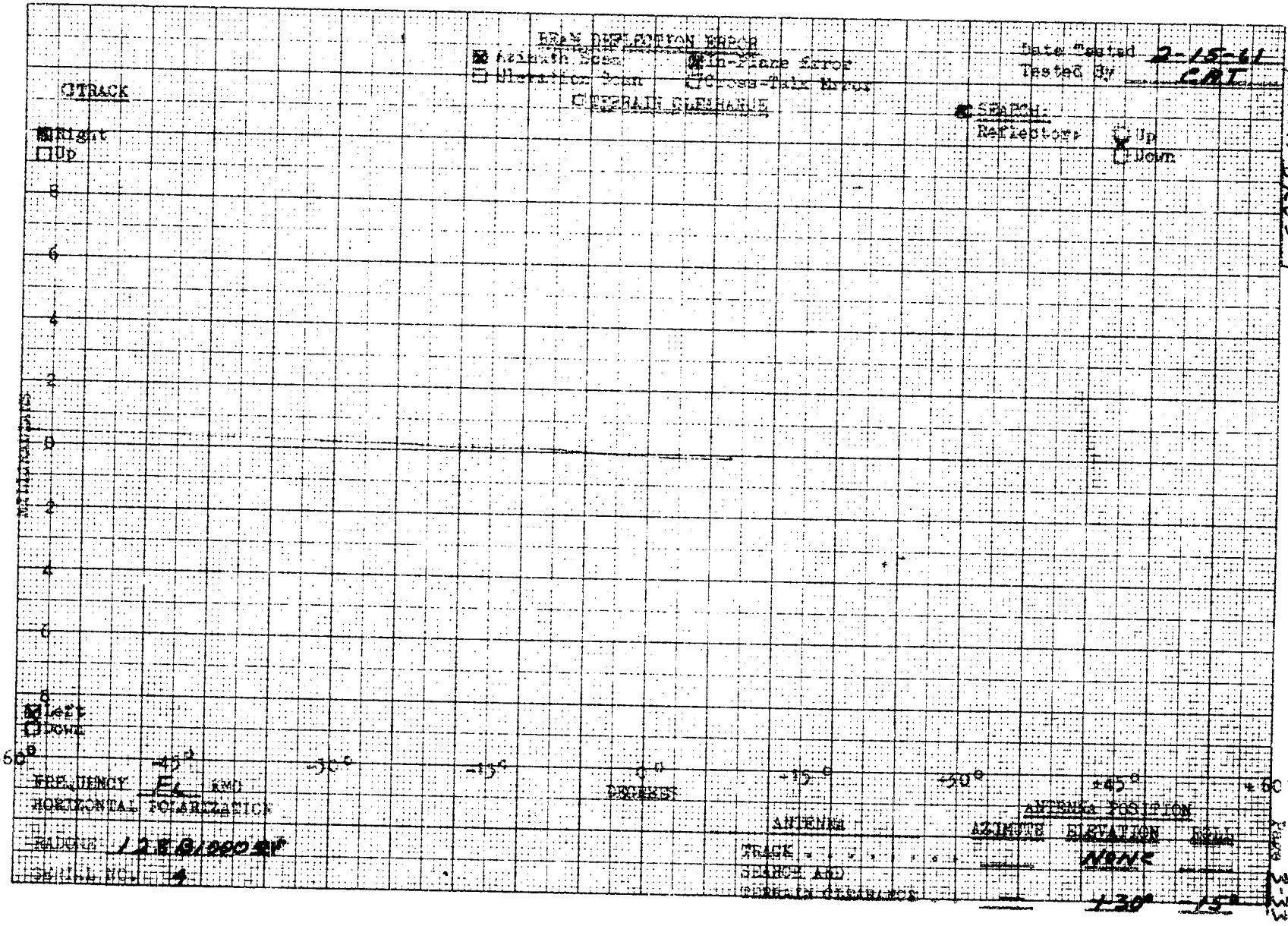
ANTENNA POSITION

ANTENNA	AZIMUTH	ELEVATION	ROLL
TRACK		None	
SEARCH AND BORESIGHT ERROR		0°	-15°

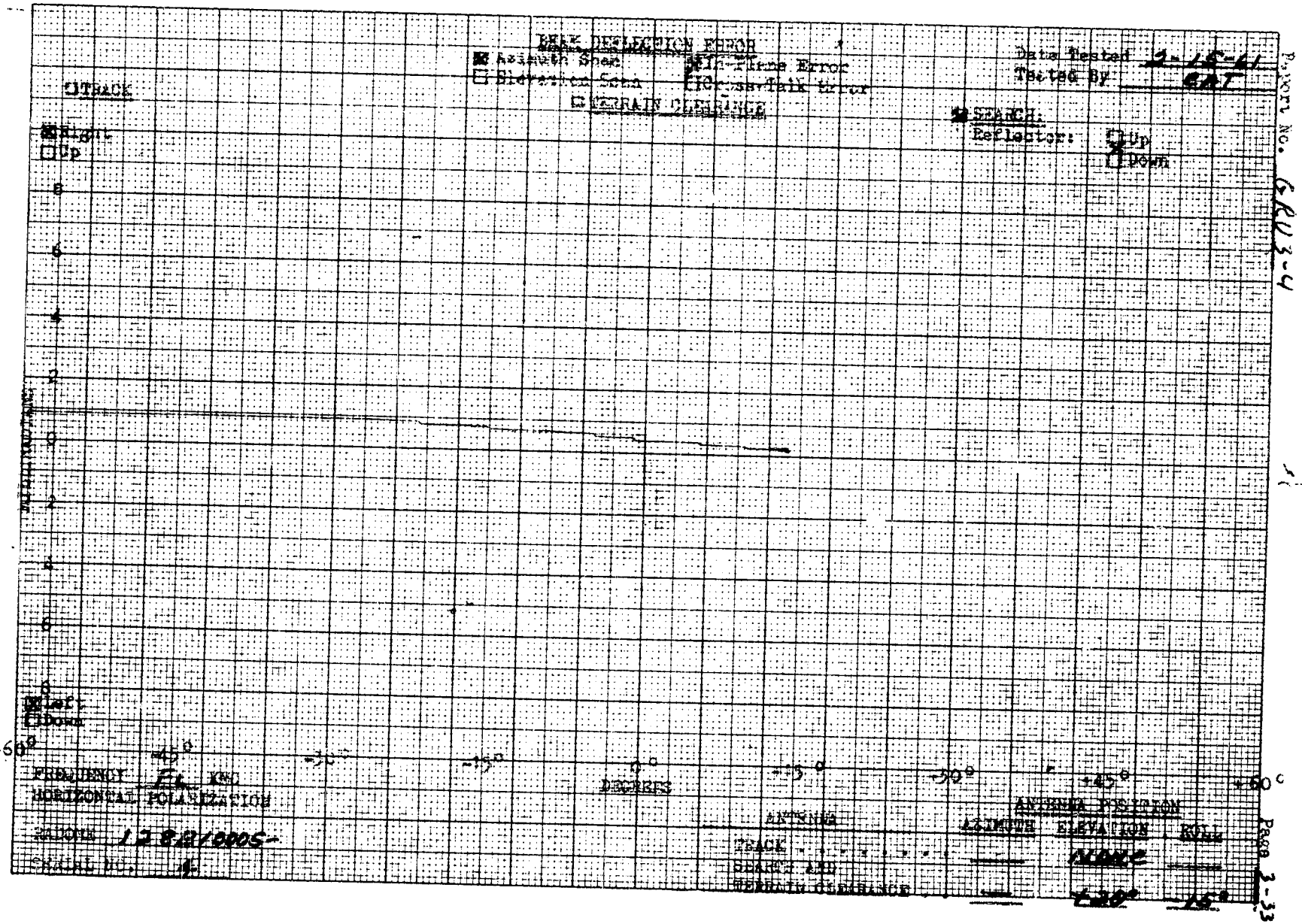
100 % LEVEL

5RW3-4

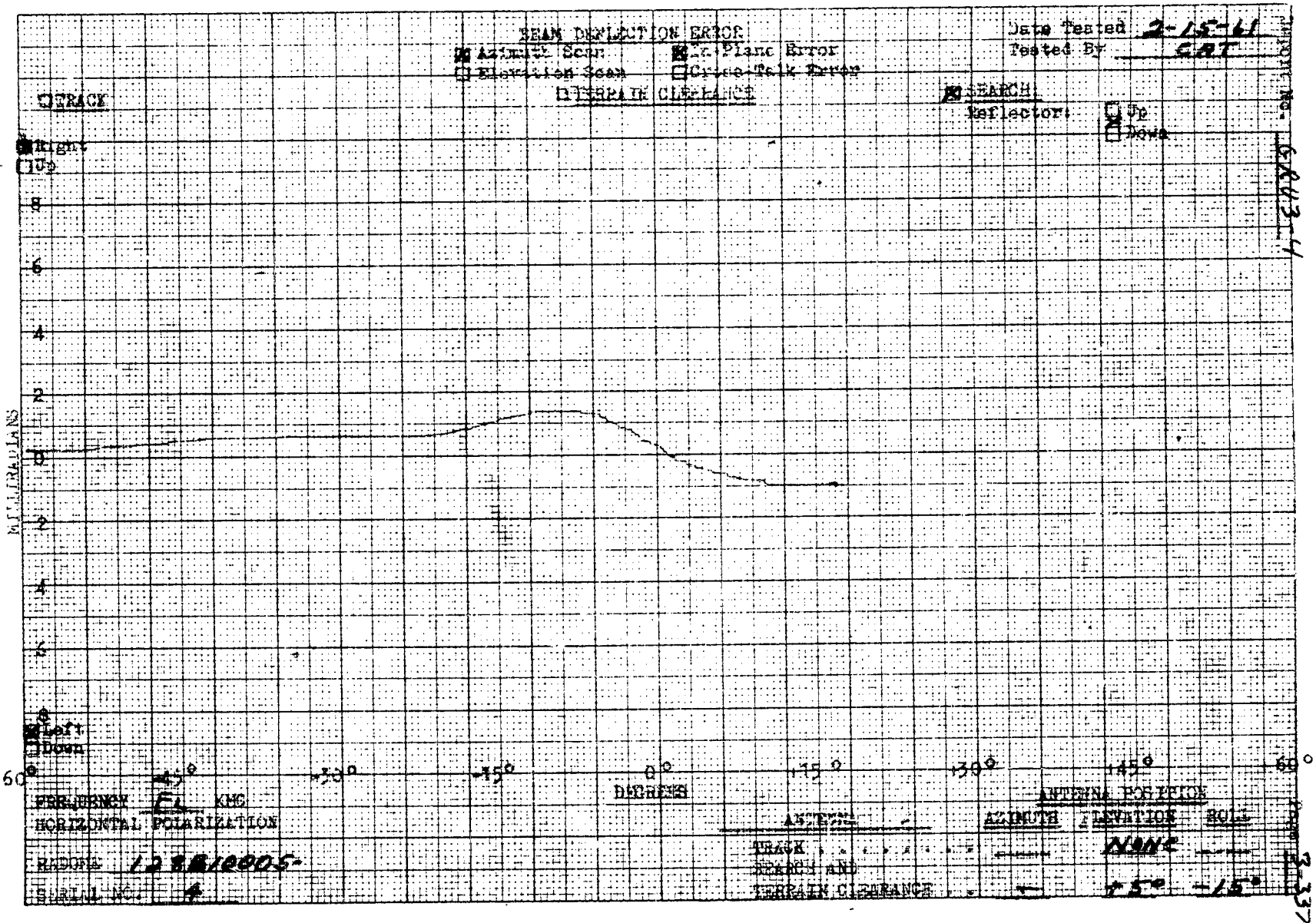
Page 3-333

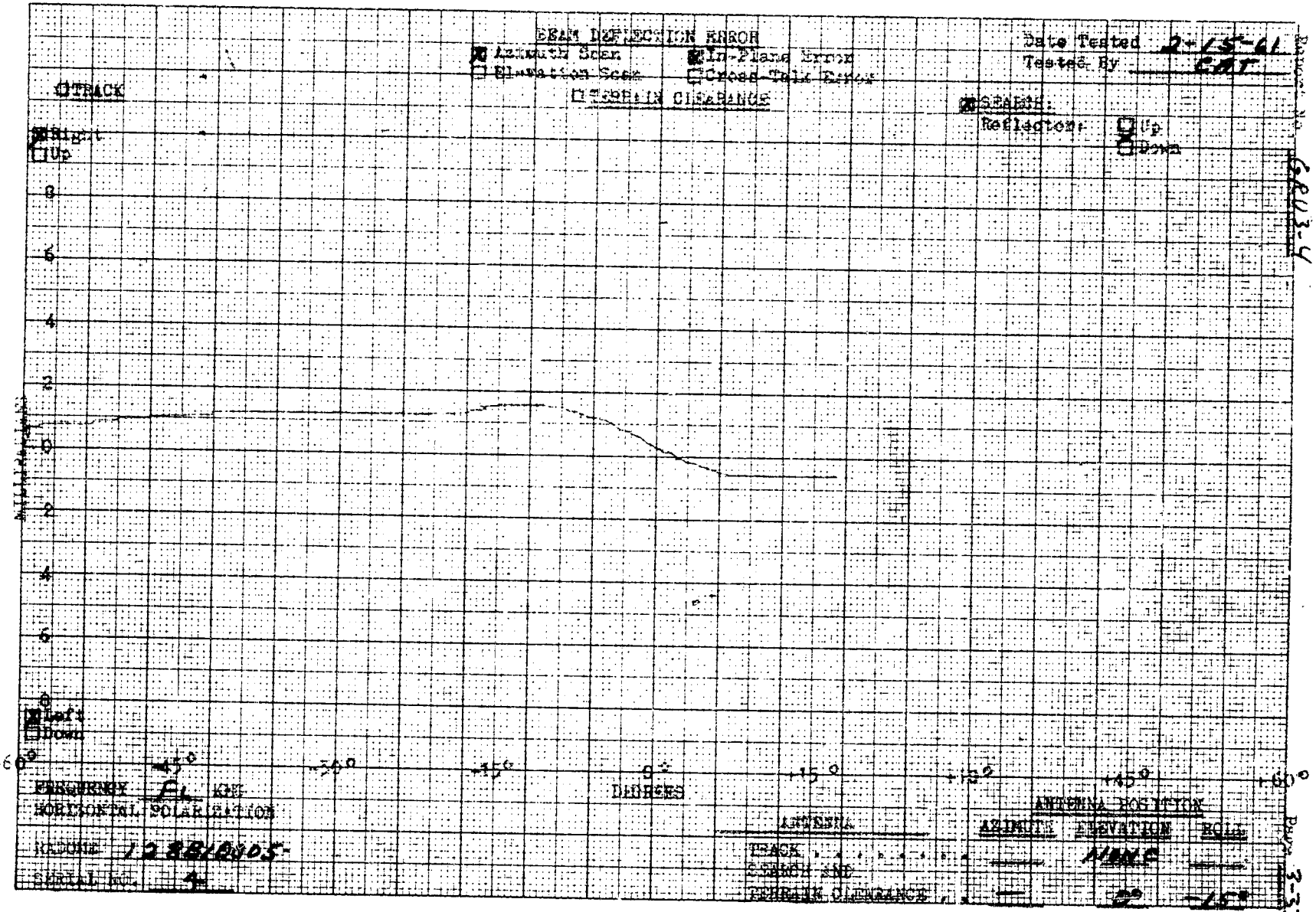

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Phase Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH
Reflectors
Up
Down
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY
AND
HORIZONTAL POLARIZATION
RADOME
SERIAL NO.
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
NONE
+30°
-15°

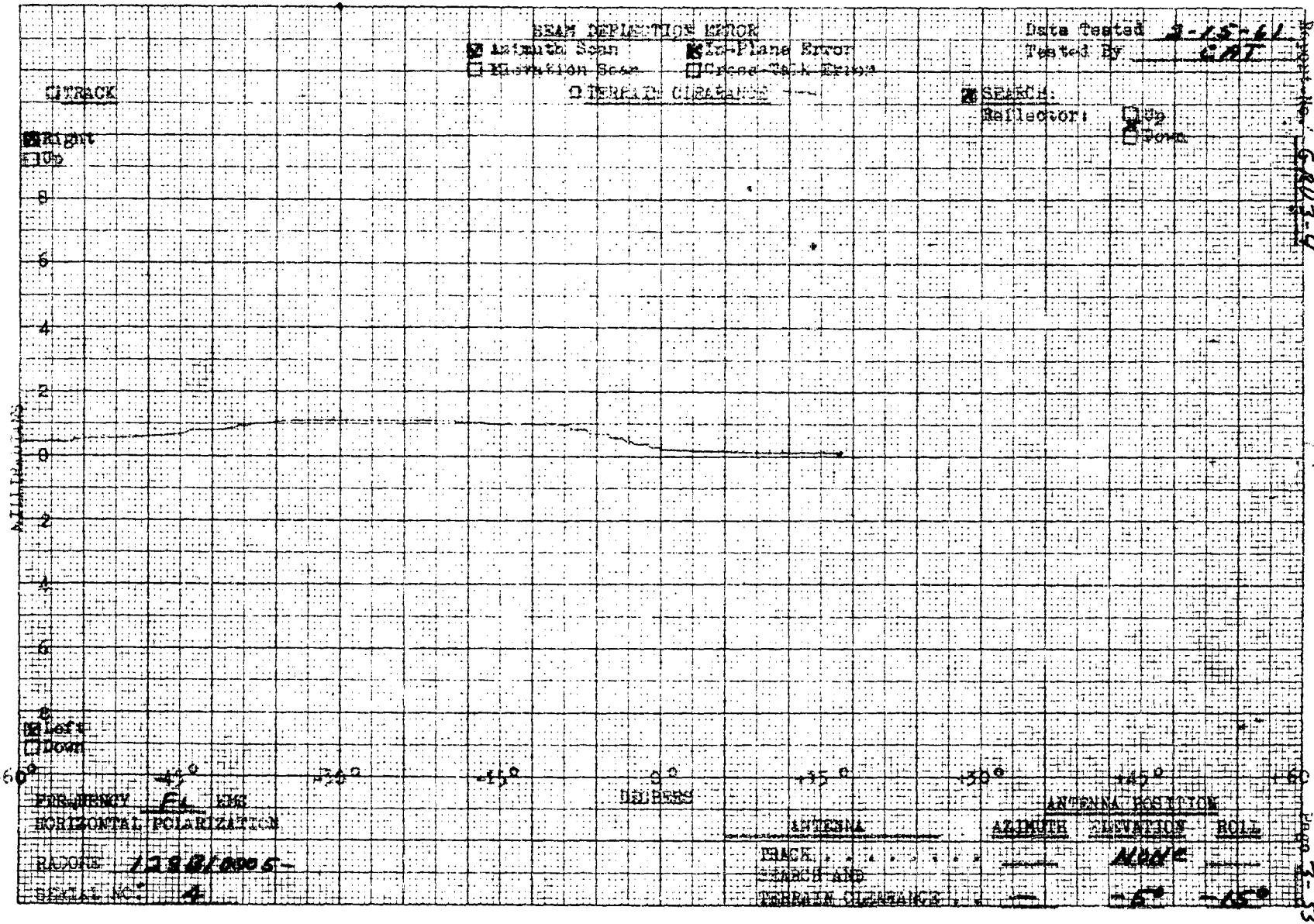
K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.



K&E 10 X 10 TO THE ½ INCH 359-116
KEUFFEL & ESSER CO




BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
DEGREES
FREQUENCY Fh MC
HORIZONTAL POLARIZATION
RECORD 12 SEP 2 0 3-
SHEET No. 4
LEGEND
TRACK
SEARCH SAG
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
AIMING
0° -45°


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Sum-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Data Tested 3-15-61
Tested By GAT
TRACK
Right
Up
Left
Down
SEARCH
Reflector: Up Down
MILLIRADIANS
8
6
4
2
0
2
4
6
8
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6 MC
HORIZONTAL POLARIZATION
RADOME 1238/0005-
DIGITAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
AZIMUTH -6°
ELEVATION -45°
Page 3-339

KEUFFEL & ESSER CO. 10 X 10 TO THE INCH 359-110

BEAM DEFLECTION ERROR

Date Tested 2-15-61

Tested By CAT

☒ Azimuth Scan ☒ In-Plane Error

☐ Elevation Scan ☐ Cosec-Squ Error

☐ TERRAIN CLEARANCE

☐ TRACK

☒ SEARCH

Reflection: ☐ Up ☒ Down

☒ Right

☐ Up

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY F_1 MMC

HORIZONTAL POLARIZATION

RADOME 12BB1000S-

SCALE NO. 4

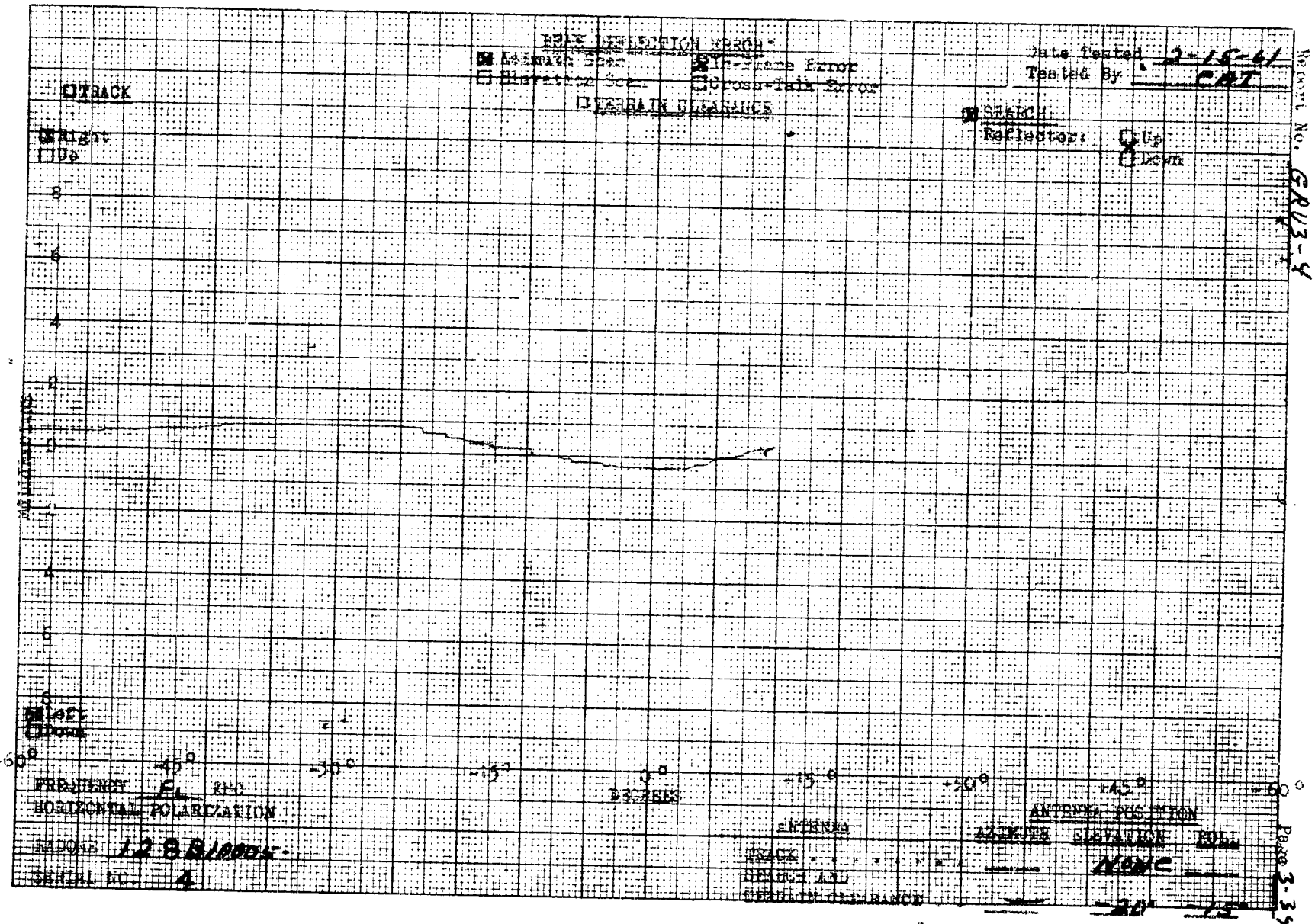
ANTENNA POSITION

	AZIMUTH	ELEVATION	ROLL
TRACK	—	ZERO	—
SEARCH AND TERRAIN CLEARANCE	—	-10°	-15°

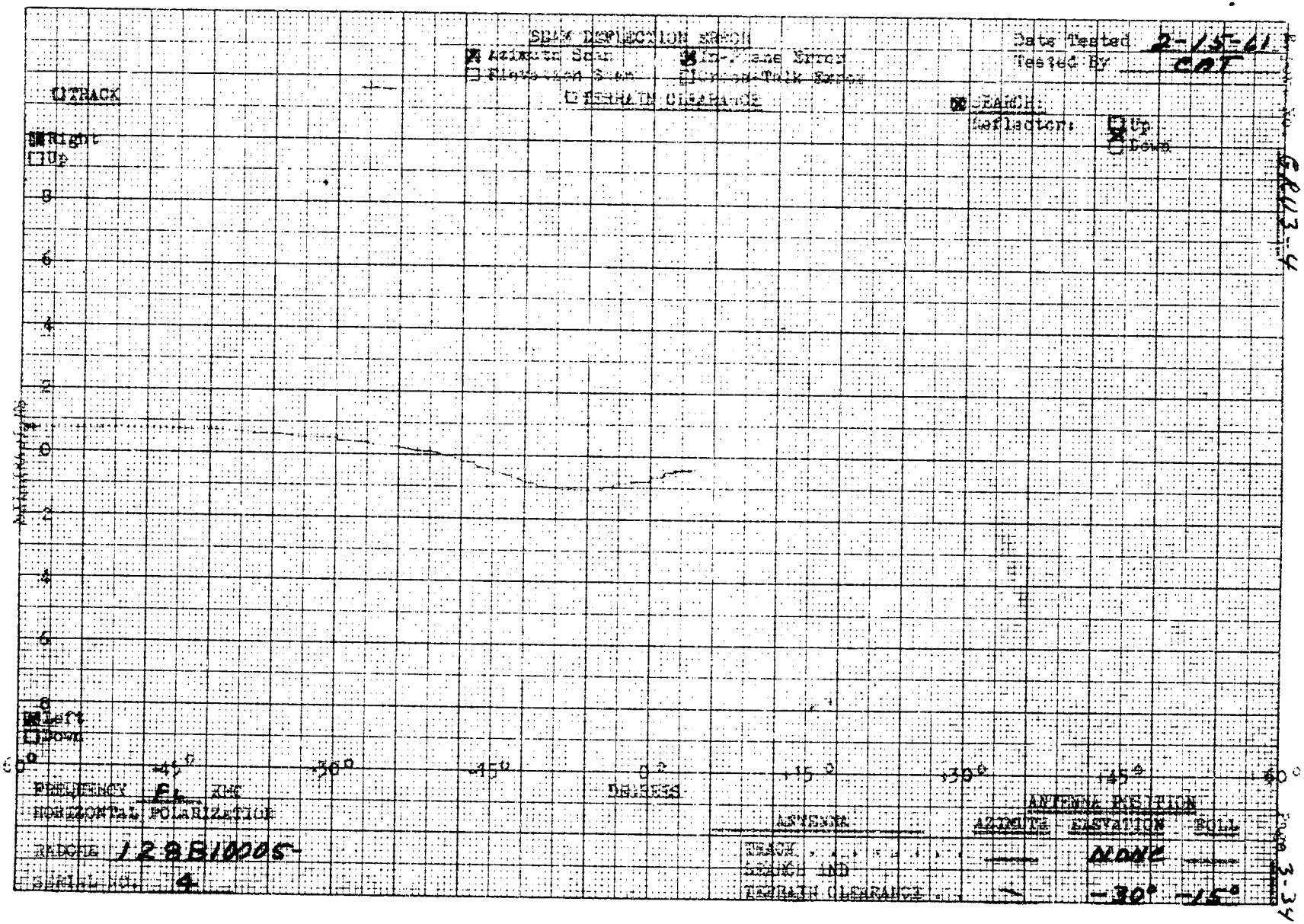
GRU3-4

3-340

10 X 10 TO THE ½ INCH 359-110
KEUFFEL & ESSER CO



K&E 10 X 10 TO THE ½ INCH 359-11G
KEUFFEL & ESSER CO.



SECTION 47

SEARCH ANTENNA BORESIGHT ERROR

F_L @ -30° ROLL, REFLECTOR MID POSITION

BEAM DEFLECTION ERROR

☒ Azimuth Scan ☒ Az-Plane Error
☐ Elevation Scan ☐ Cross-Talk Error

Data Tested 2-15-61
Tested by G.W.&F.S.

☐ TRACK
☒ Right
☐ Up

☒ SEARCH
Reflector: ☐ Up ☒ Down

☒ Left
☐ Down

Millidegrees

8 6 4 2 0 2 4 6 8

-60° -45° -30° -15° 0° +15° +30° +45° +60°

DEGREES

FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION

PROJECT 128B10005-3
SERIAL NO. 4

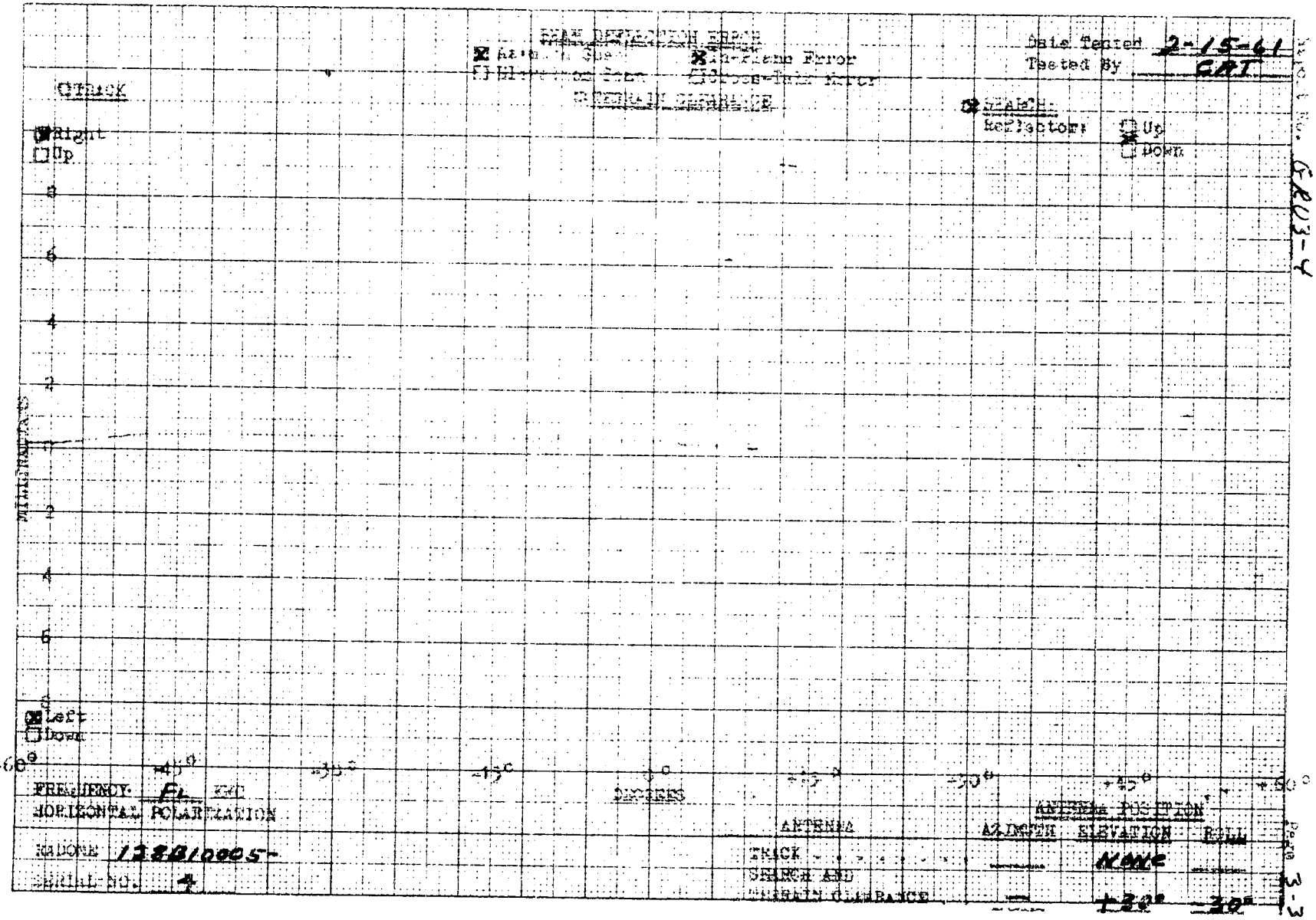
ANTENNA
TRACK
SEARCH AND
MAINTAIN PERFORMANCE

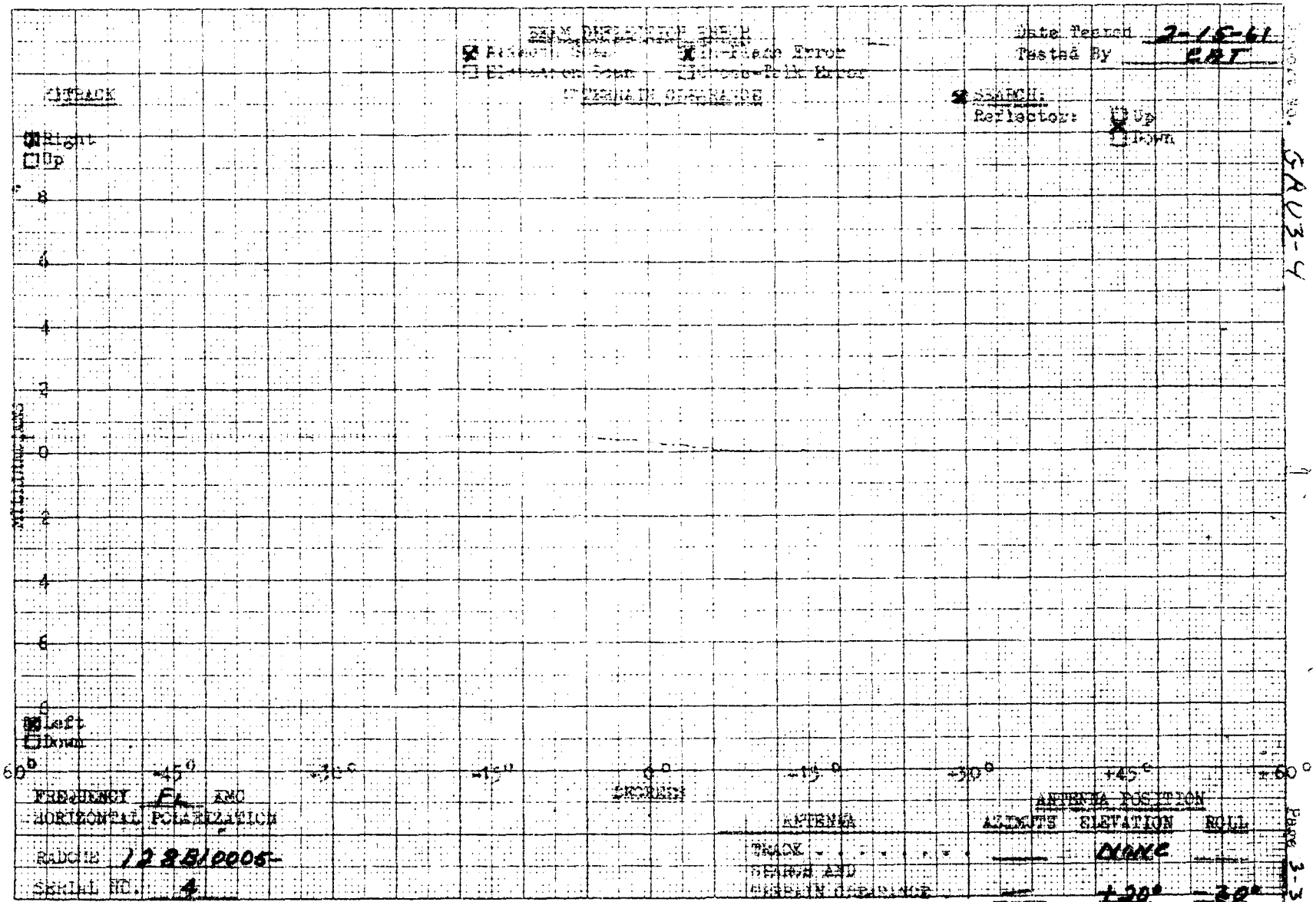
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
None
0° -30°

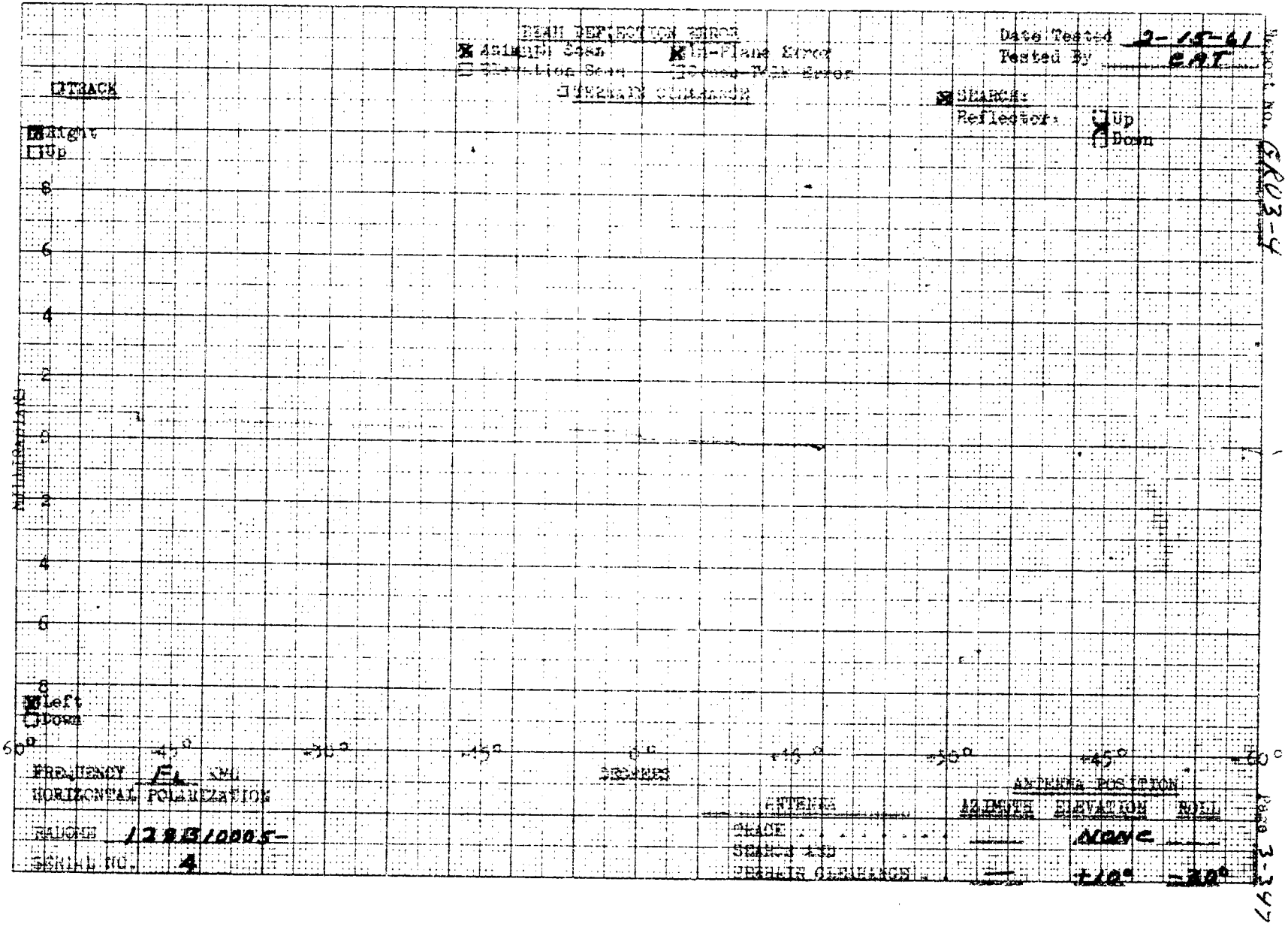
100 % LEVEL

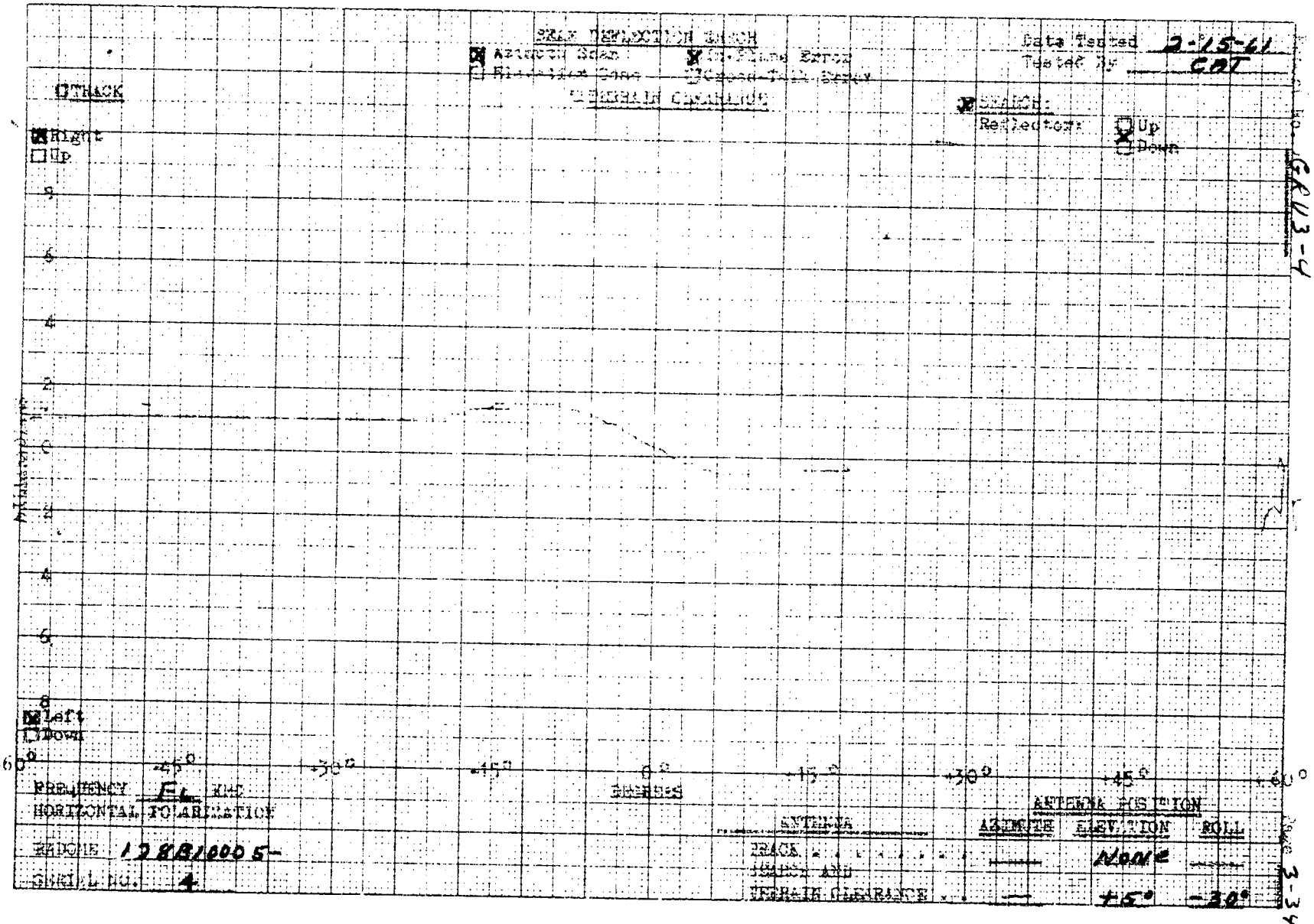
REPORT NO. GRU3-4

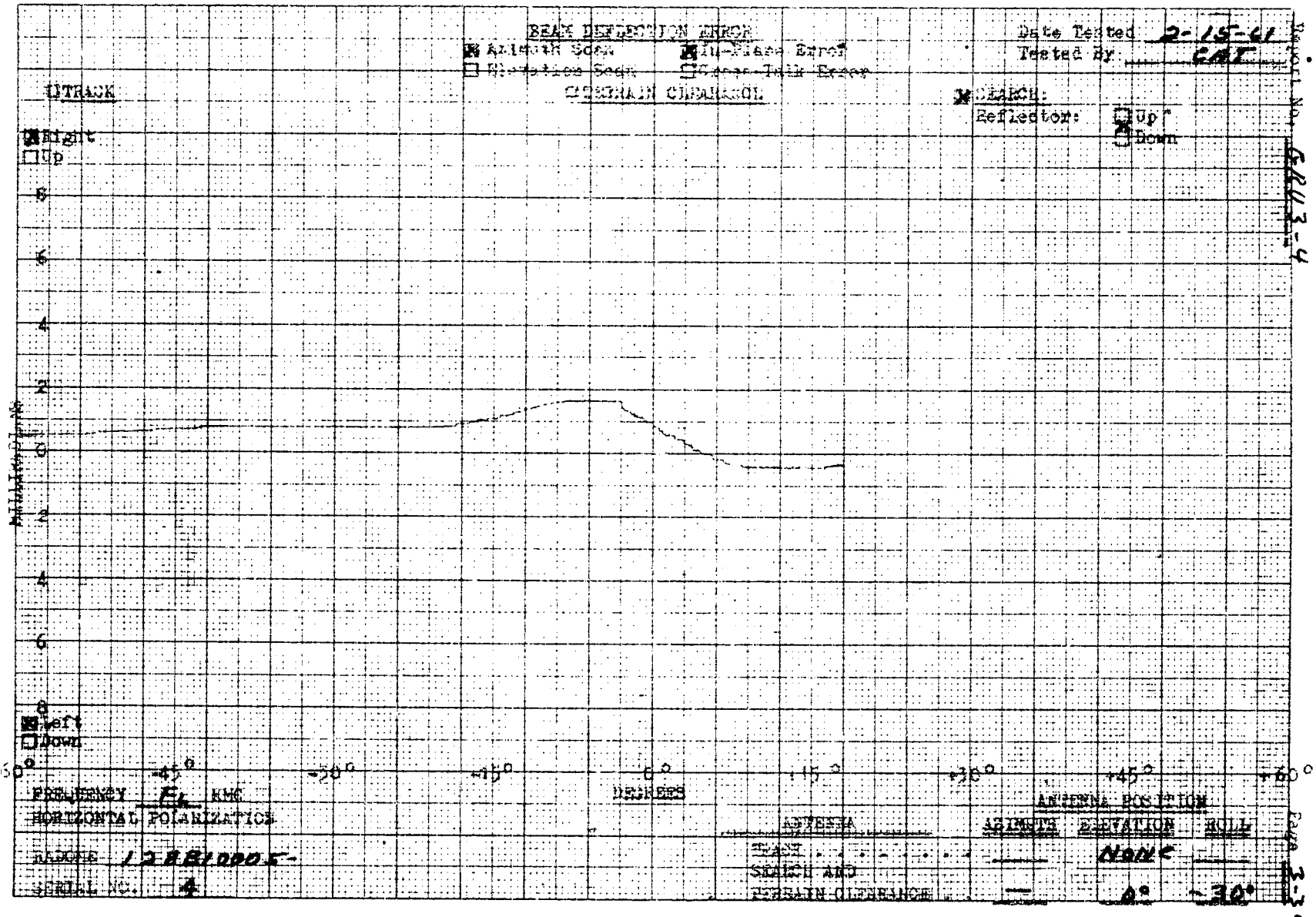
FORM 3-34

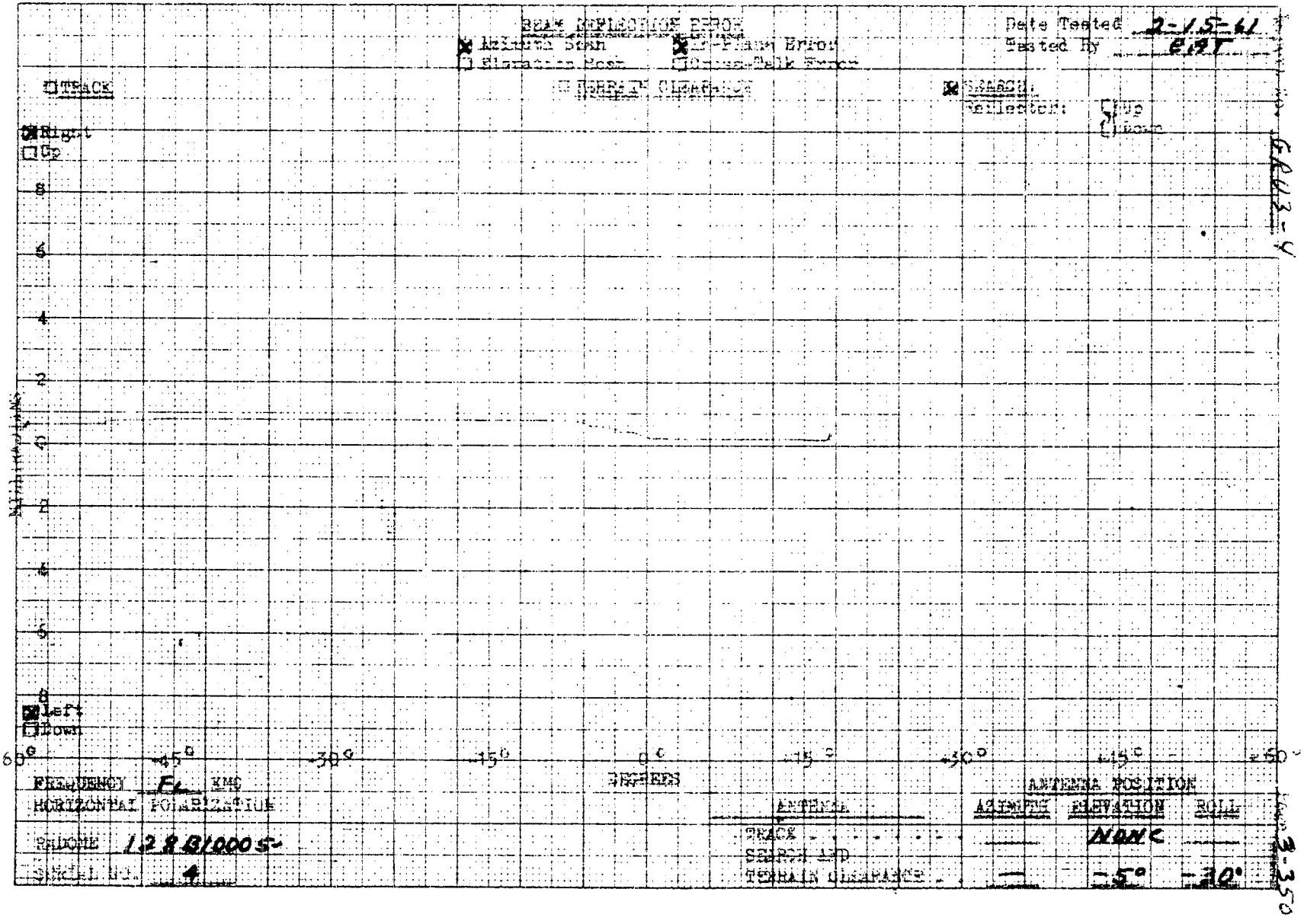

BEAM DEFLECTION ERROR
Azimuth Error
Elevation Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY fL MC
HORIZONTAL POLARIZATION
RADOME 1288100005-
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
KAMC
+20°
-30°
GRU3-4
3-345-

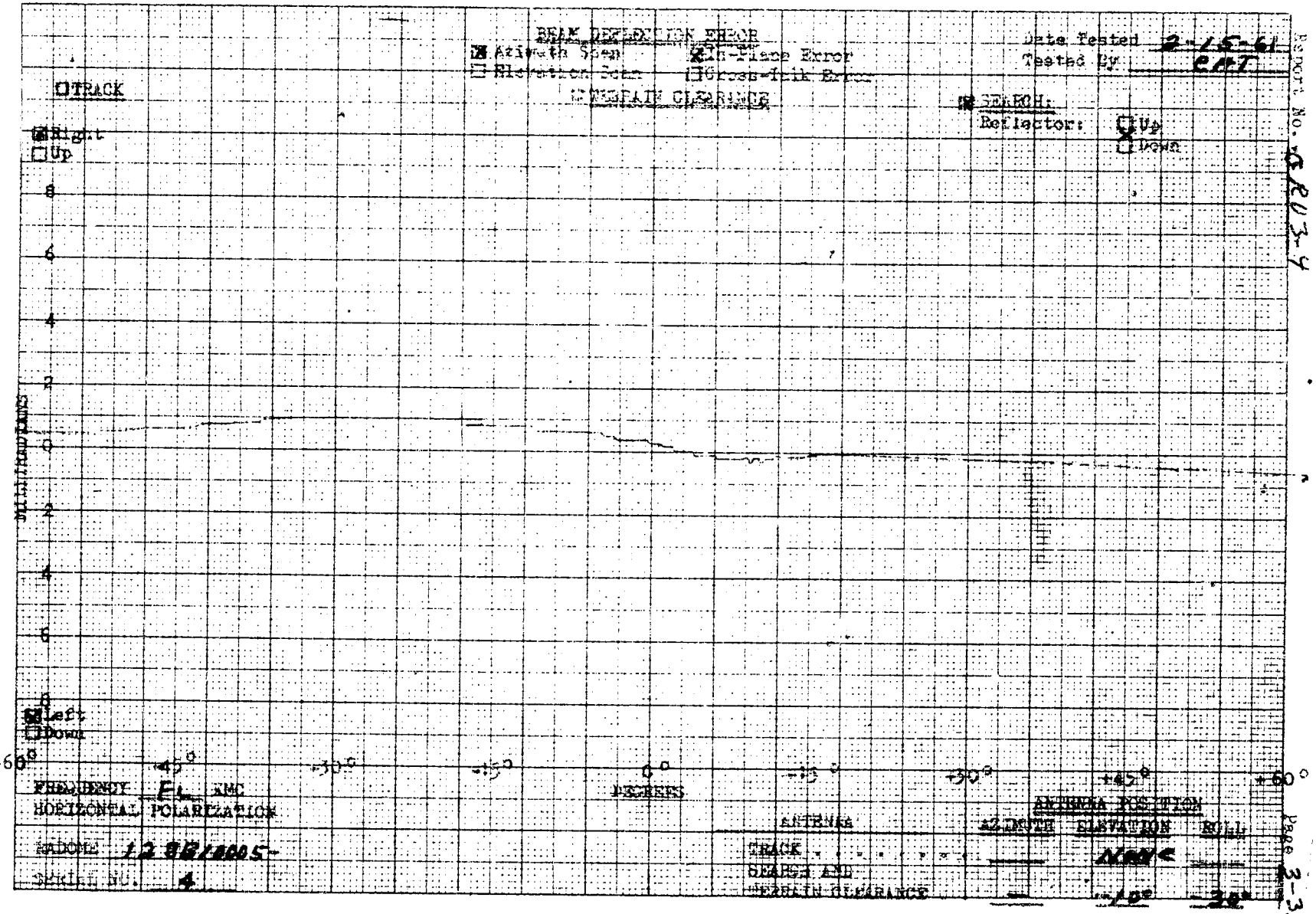

Date Tested 2-16-61
Tested By CRT
SEARCH
Reflector: Up
Down
Right
Up
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
8
6
4
2
0
2
4
6
8
FREQUENCY Fh MC
HORIZONTAL POLARIZATION
RADOME 1228/00005-
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
+20° -30°

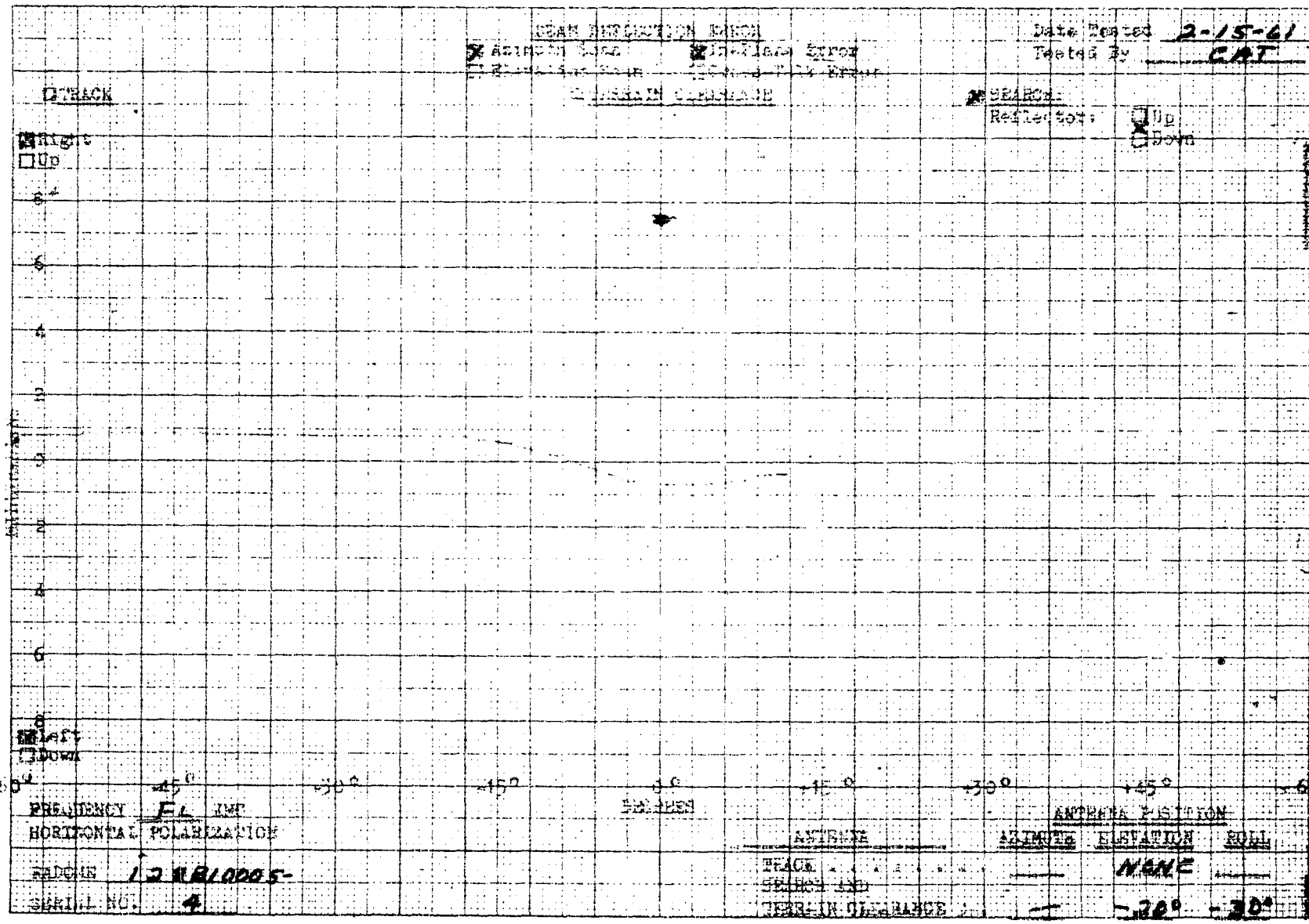

BEAM REFLECTION ERROR
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
Left
Down
Reflector: Up Down
FREQUENCY 15.4 KMC
HORIZONTAL POLARIZATION
RADOME 1283/10005-
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES

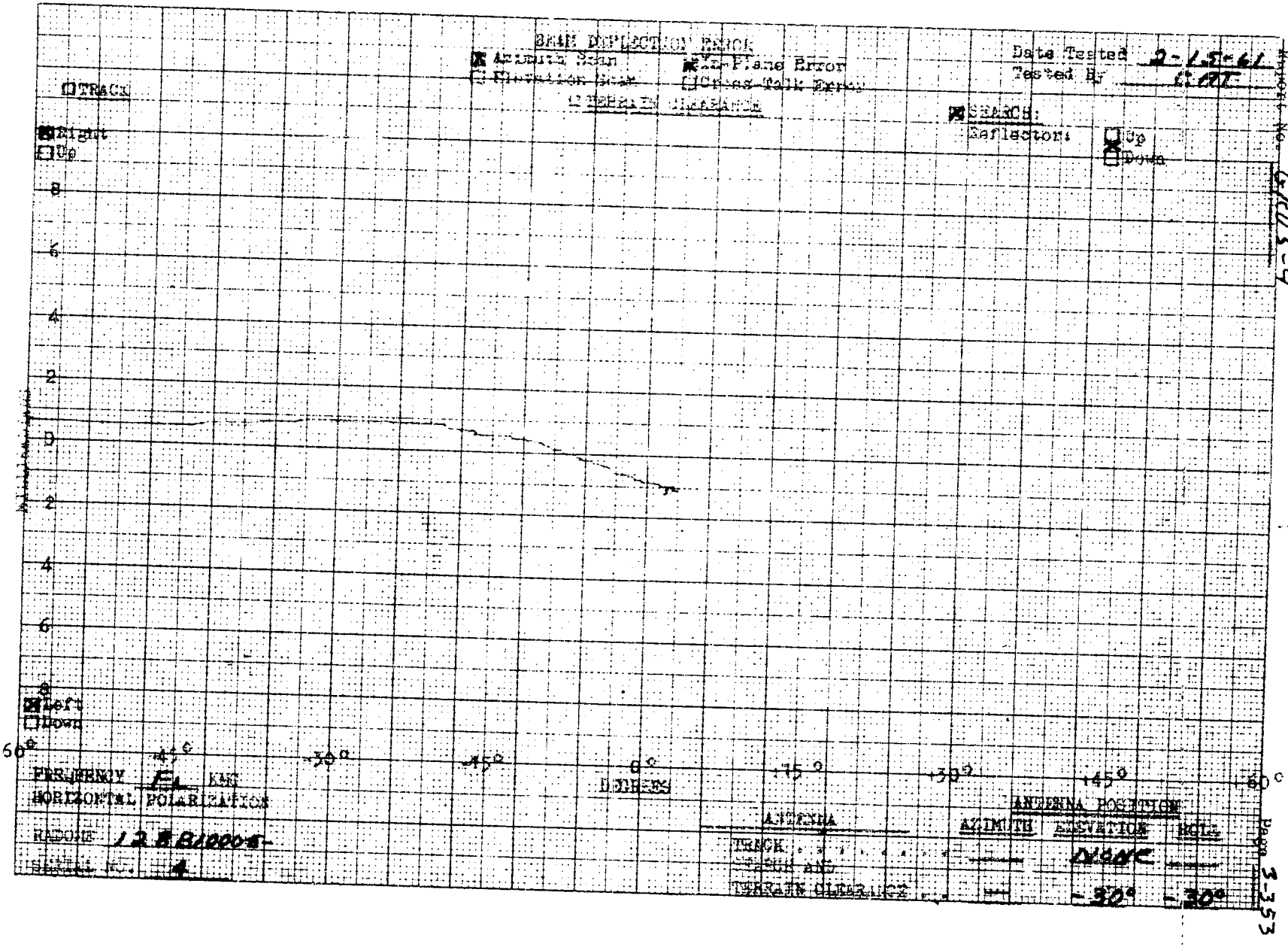

Data Tested 2-15-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH:
Reflector
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.6 KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
NONE
+5°
-30°


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By EAE
TRACK
Right
Up
SEARCH:
Reflections:
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fk KMC
HORIZONTAL POLARIZATION
RADOME 12BR10005-
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
BEAM
SEARCH AND
TERRAIN CLEARANCE
0°
-30°
None
Report No. EAE 3-4
Page 3-49


BEAM REFLECTION ERROR
Azimuth Scan
Elevation Rose
X-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
TRACK
Right
Up
Left
Down
MINUTES
SEARCH:
Collection:
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY F4 KMC
HORIZONTAL POLARIZATION
RADOME 1.28 81000 S-
SHELL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-5°
-30°
Date Tested 2-15-61
Tested By E.I.T.
E-6113-4
3-350


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Phase Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CMT
TRACK
Right
Up
SEARCH
Reflector: Up
Down
Left
Down
MILLIMETERS
-60° -45° -30° -15° 0° +15° +30° +45° +60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 12 GA 12005-4
SPARE NO. 4
ANTENNA
TRACK
BEARING AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
Report No. 12934
Page 3-35


BEAM DEFLECTION ERROR
Azimuth Error
Elevation Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
Left
Down
SEARCH
Reflected:
Up
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 5.4 MC
HORIZONTAL POLARIZATION
RADOME 12 MRADOOS-
SERIAL NO. 4
ANTENNA POSITION
ANTENNA
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND
TERRAIN CLEARANCE
NONE
-20°
-30°
EA43-4
3-352


BEAM DEFLECTION INDICATOR
Azimuth Beam
Elevation Beam
X-Y Plane Error
Cross-Talk Error
TERRAIN ELEVATION
Date Tested 2-15-61
Tested By
TRACK
Right
Up
SEARCH:
Deflection:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
PERIPHERY
E1
KMC
HORIZONTAL POLARIZATION
RADOME 12 ft Bifocal
ANTENNA POSITION
AZIMUTH
ELEVATION
HOL
None
-30°
-30°
ANTENNA
TRACK
TERRAIN CLEARANCE
Figure 3-4
Page 3-353

SECTION 4C

SEARCH ANTENNA BORESIGHT ERROR

F_L @ -60° & LL, REFLECTOR MID POSITION

BEAM DEFLECTION FACTOR

☒ Azimuth Scan ☒ Difference Error

☐ Elevation Scan ☐ Sum-and-Delta Error

☐ TERRAIN CLEARANCE

Date Tested 2-15-61

Tested By [illegible]

☒ SEARCH

Reflectors: ☐ Up ☒ Down

☒ TRACK

☒ Right

☐ Up

Report No. [illegible]

8

6

4

2

0

2

4

6

8

☒ Left

☐ Down

Elevation

-60° -45° -30° -15° 0 +15° +30° +45° +60°

DEGREES

PRELIMINARY 4/4 RMS

HORIZONTAL POLARIZATION

RADOME 1288 1000 5-3

SERIAL NO. 4

ANTENNA

TRACK

SEARCH AND

TERRAIN CLEARANCE

ANTENNA POSITION

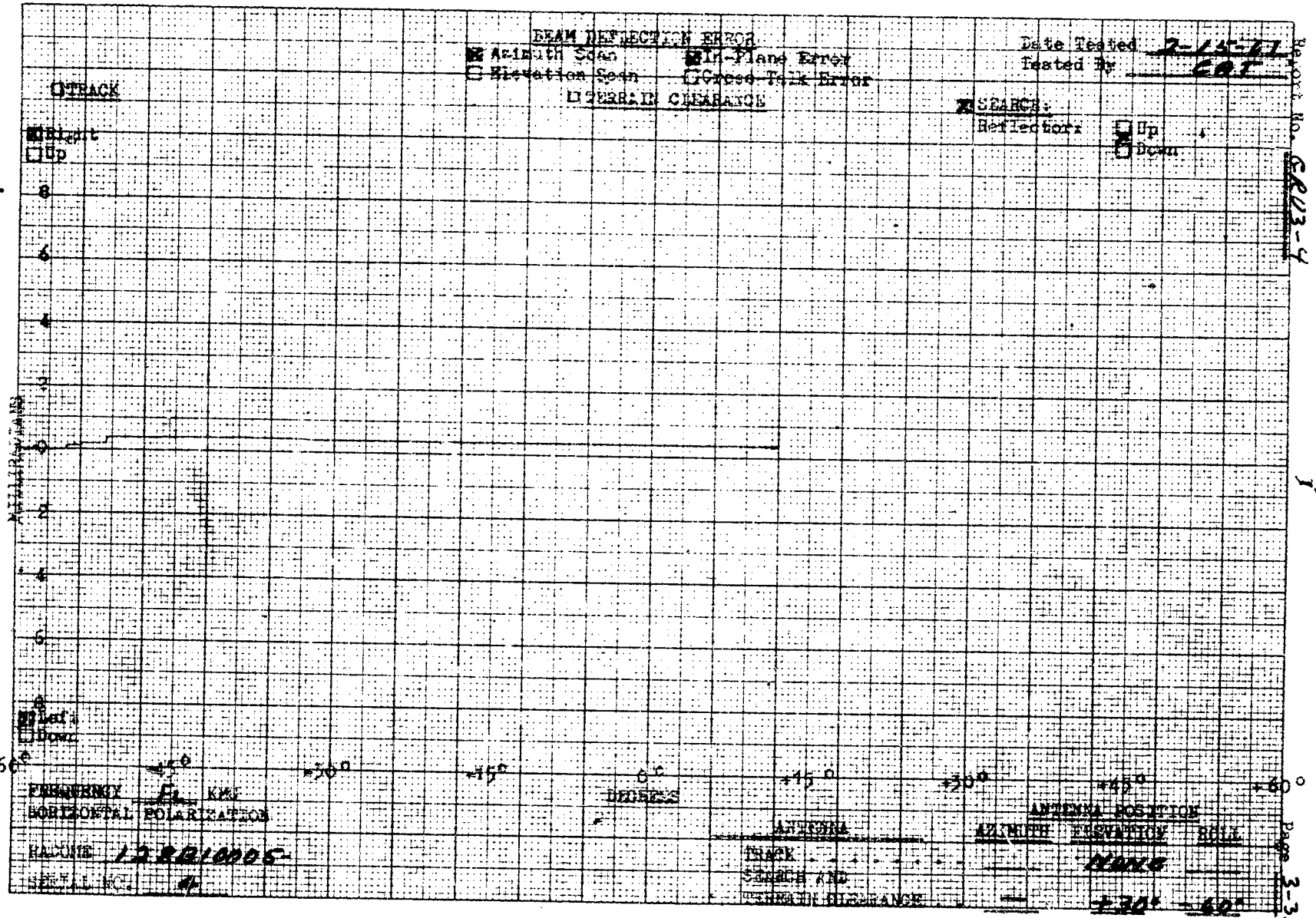
AZIMUTH ELEVATION ROLL

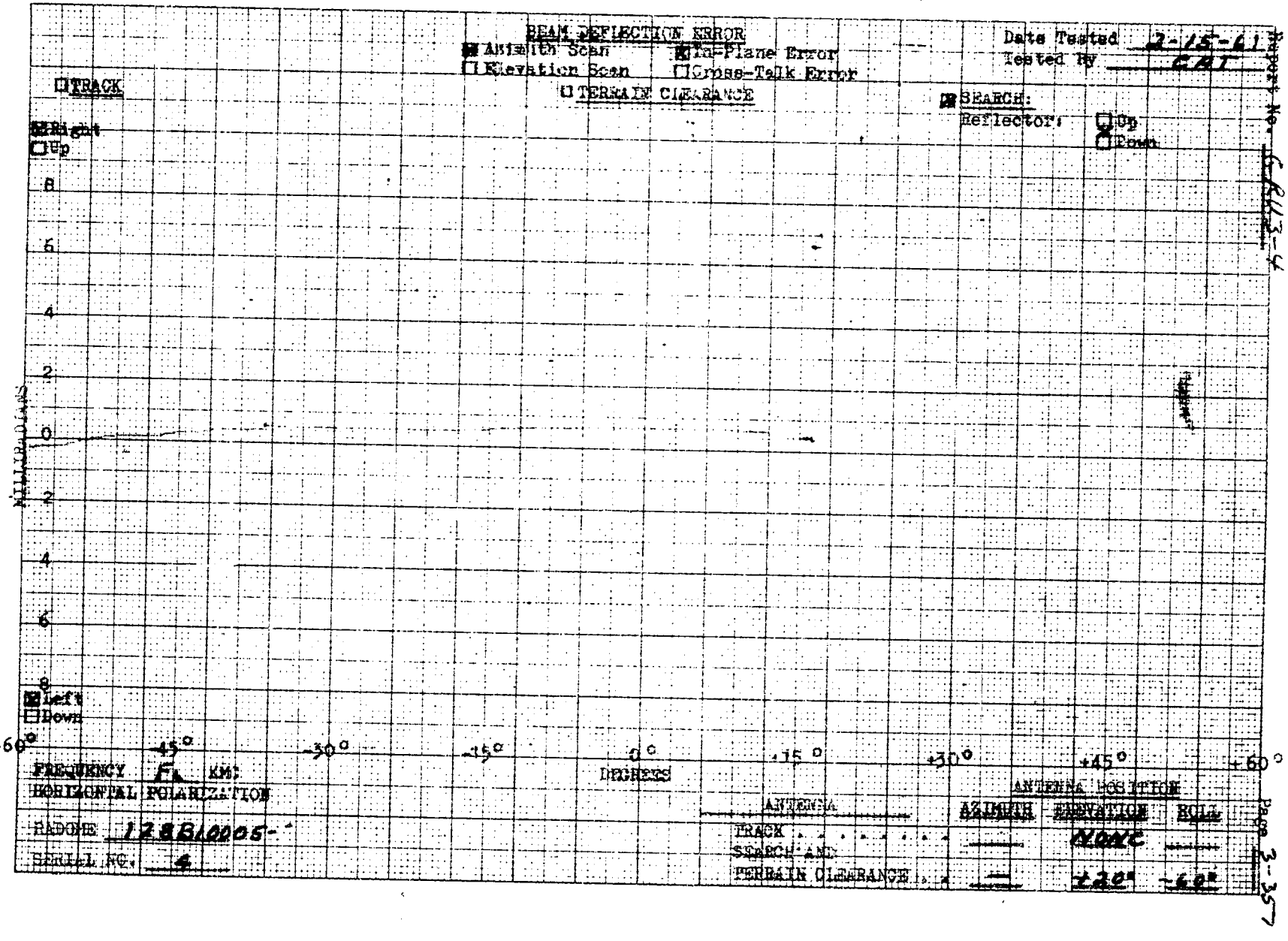
HOME

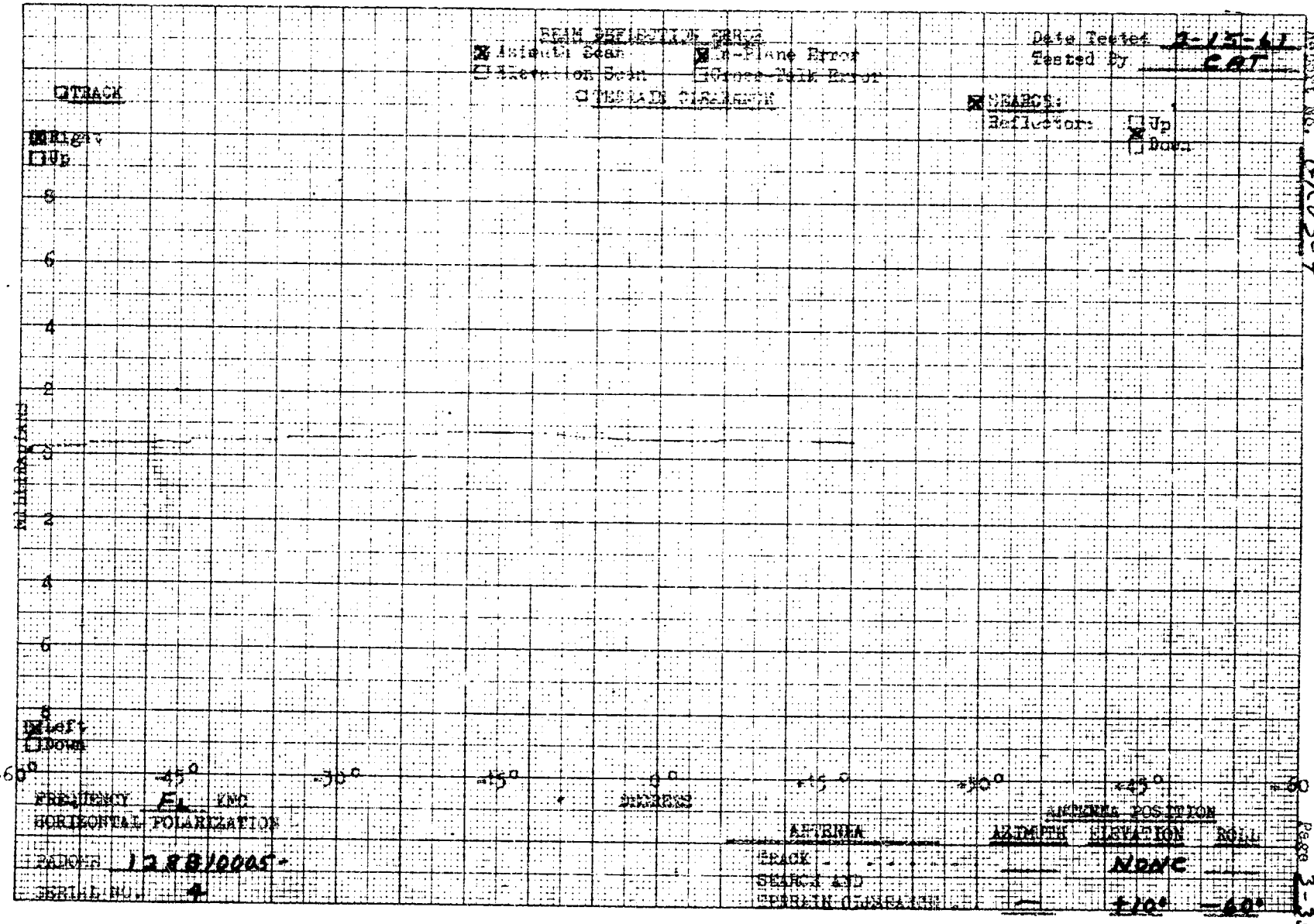
0° -60°

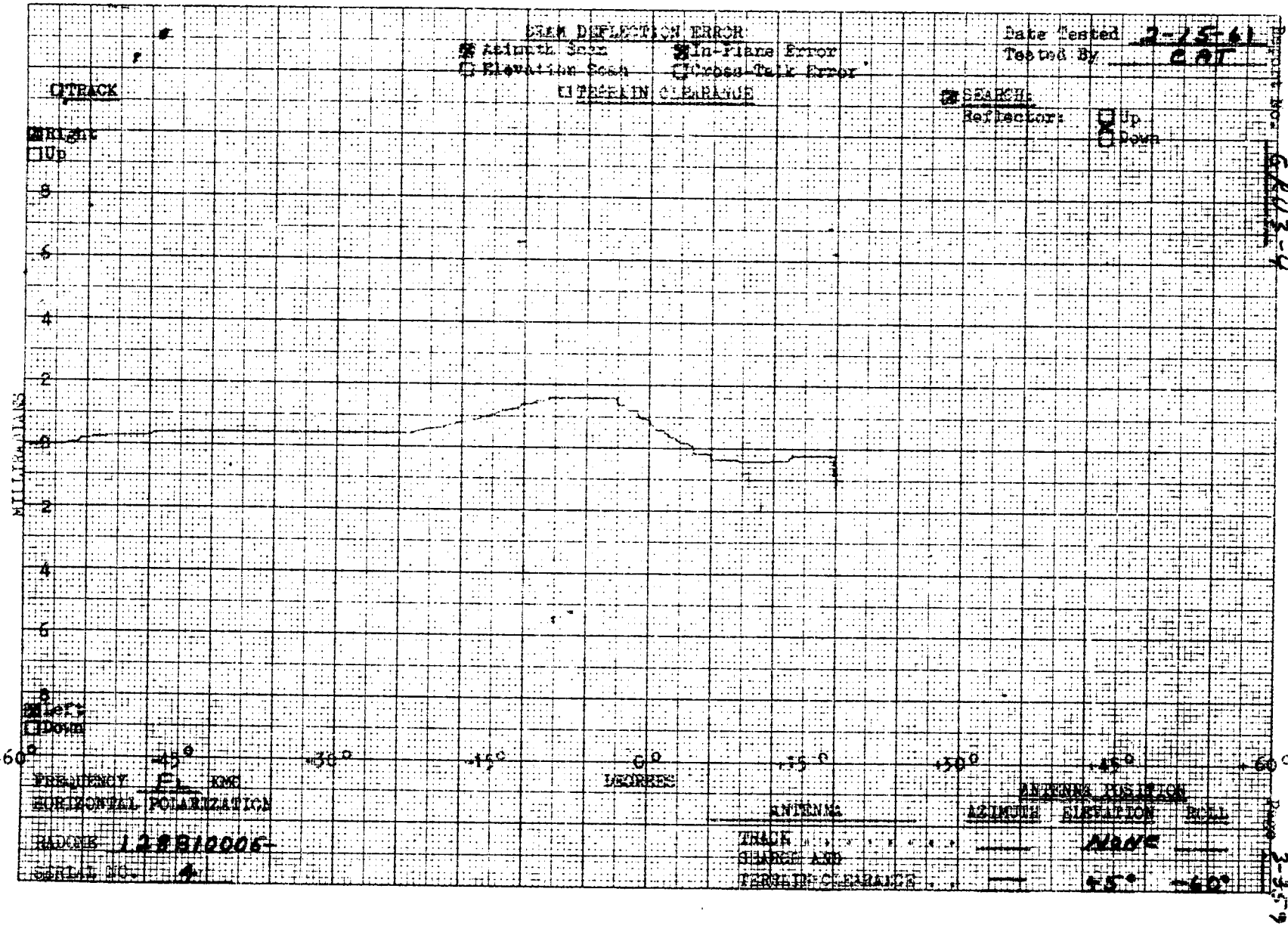
100 % LEVEL

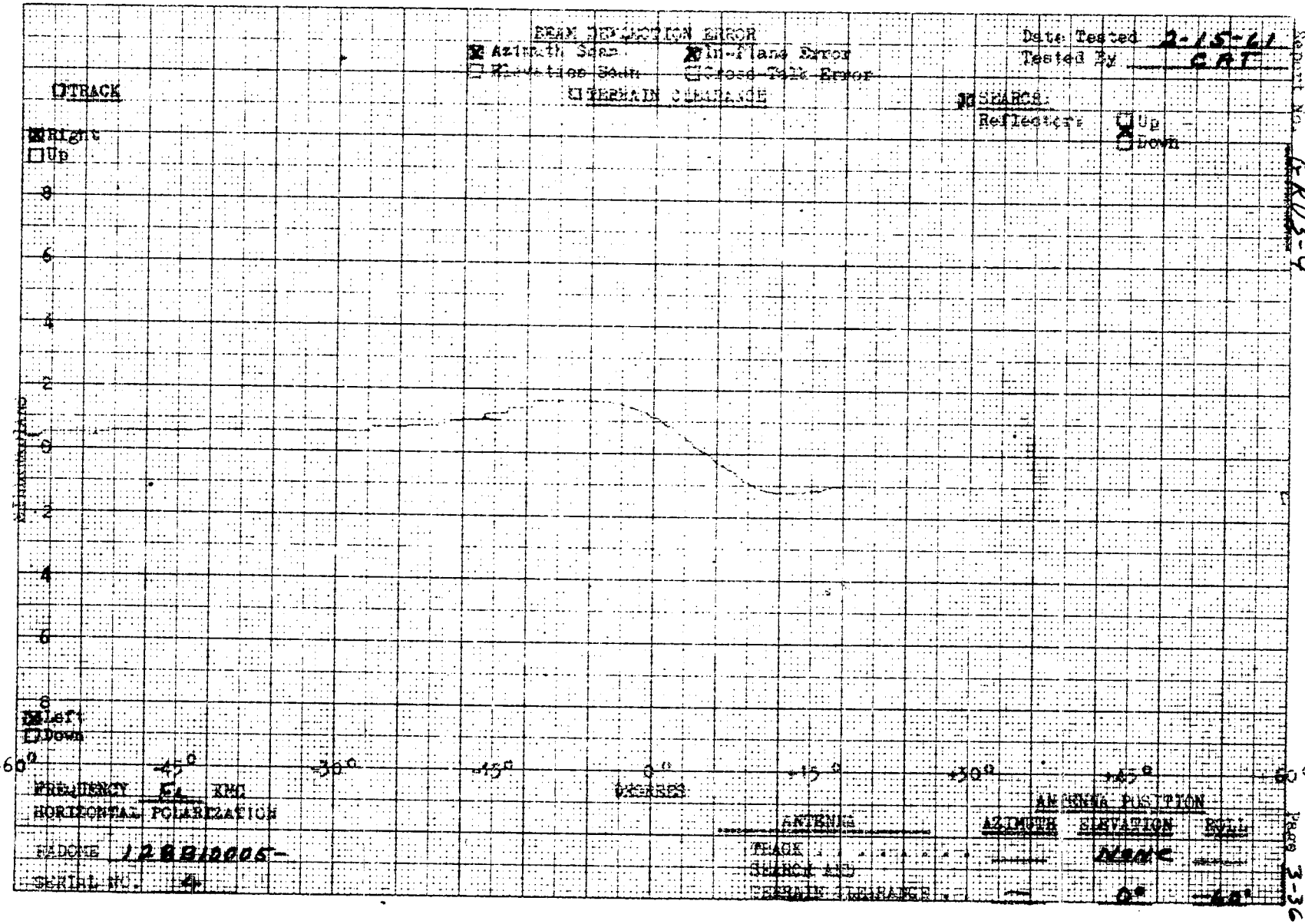
Page 3-355


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TRACK
Right
Up
Left
Down
SEARCH:
Reflectors:
Up
Down
Date Tested 2-15-57
Tested By CAT
Report No. ERR3-4
Page 3-35
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fk KMC
HORIZONTAL POLARIZATION
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
TRACK
SEARCH AND
+30° -60°

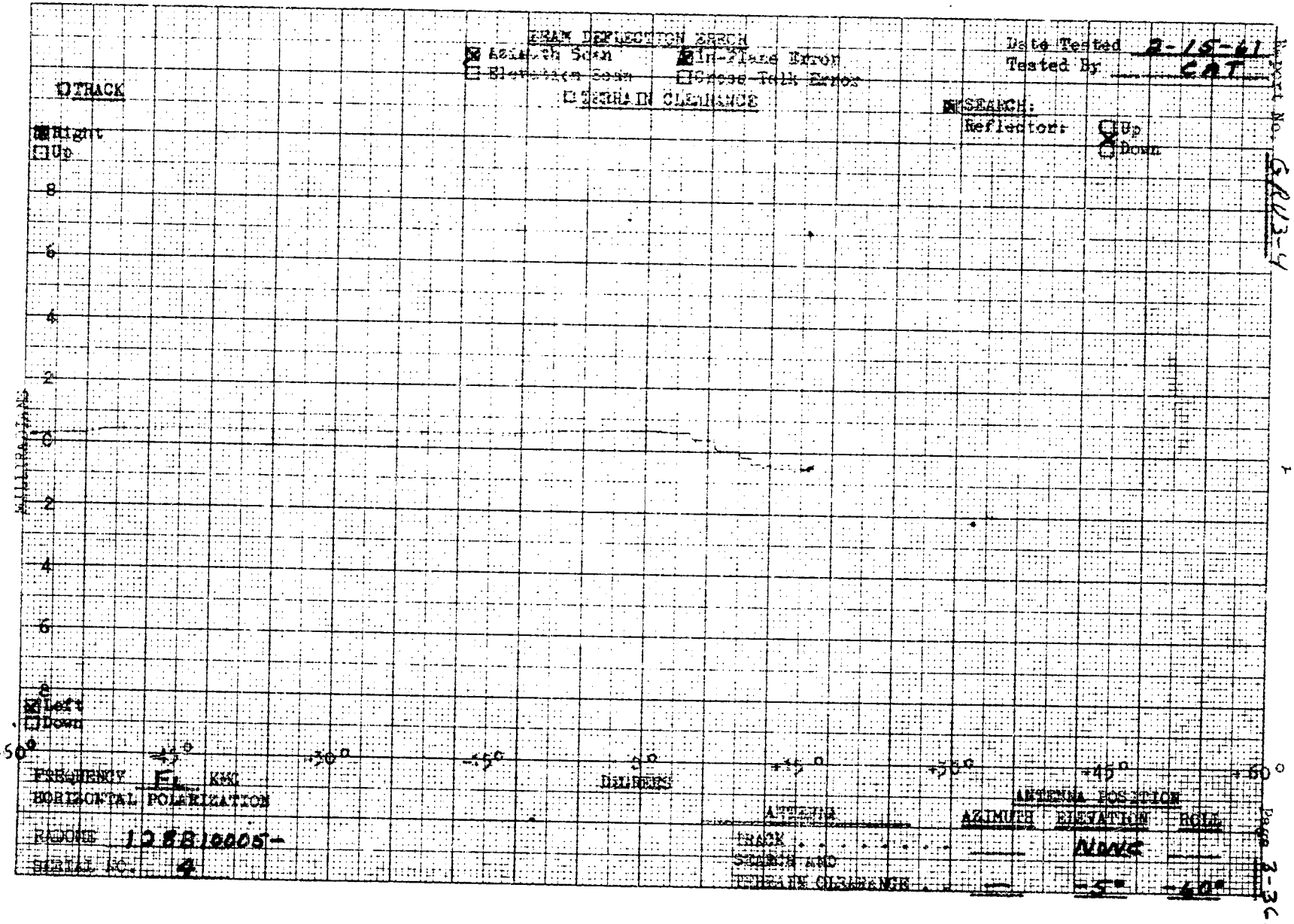

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
X-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
Report No. GAEC 62-4
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fa KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-1
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
TRACK
SEARCH AND TERRAIN CLEARANCE
+20°
-60°
Page 3-357

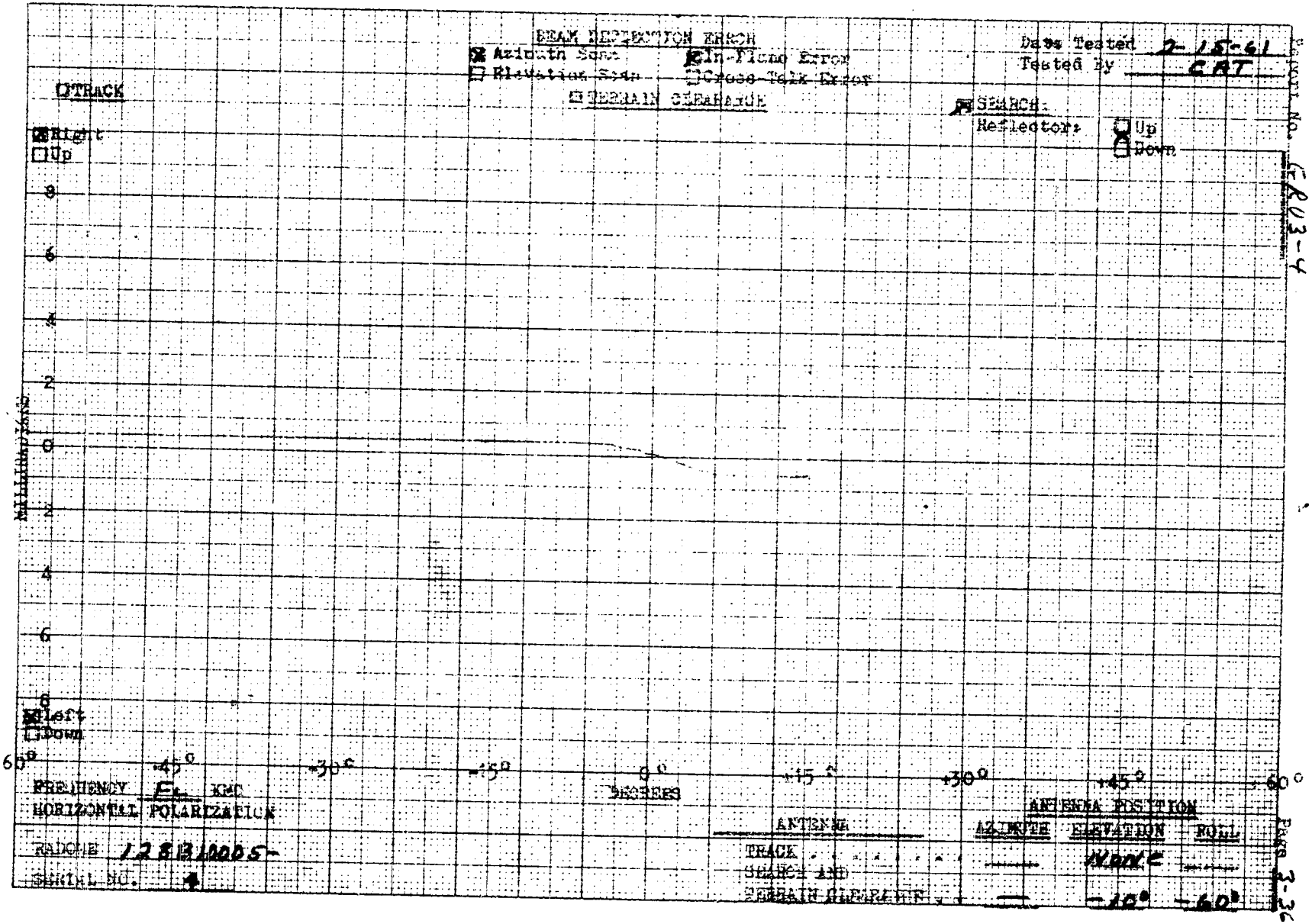

BEAM DEFLECTION ERRS
Azimuth Scan
Elevation Scan
TRACK
Right
Up
Left
Down
A-Plane Error
SEARCH
Reflectors:
Up
Down
Date Tested 2-15-61
Tested By CAT
Report No. RCU3-4
Page 3-358
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY F4 MC
HORIZONTAL POLARIZATION
RADOME 1288/10005-
SERIAL NO. 4
AIRCRAFT POSITION
AZIMUTH ELEVATION ROLL
NOMC
+10° -60°

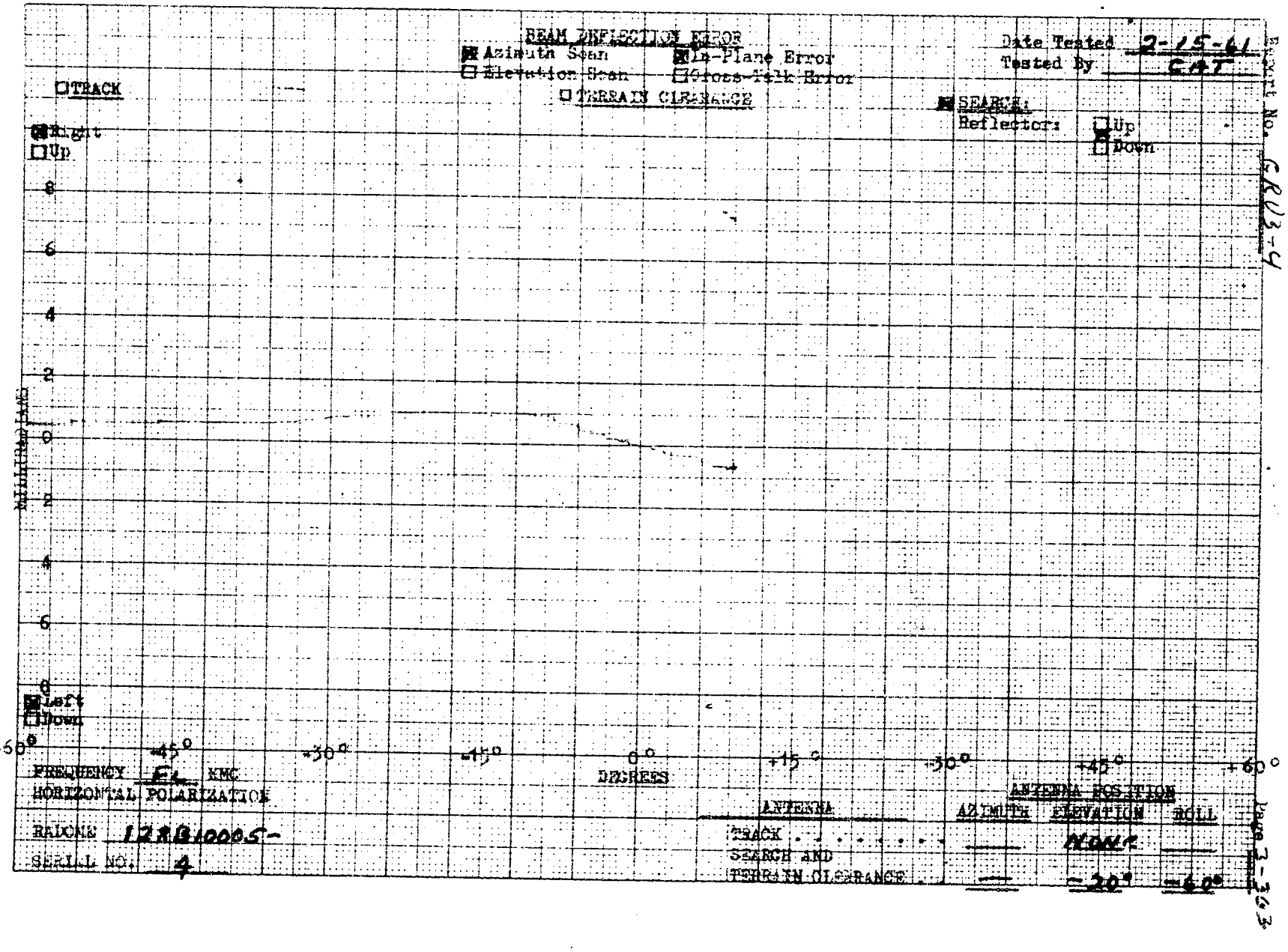

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-25-61
Tested By CAT
TRACK
Right
Up
SEARCH
Reflectors:
Up
Down
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY KMC
HORIZONTAL POLARIZATION
RADOME 12-8810006-
SERIAL NO. 4
ANTENNA
TRACK
BEAM AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
Nose
+5° -60°

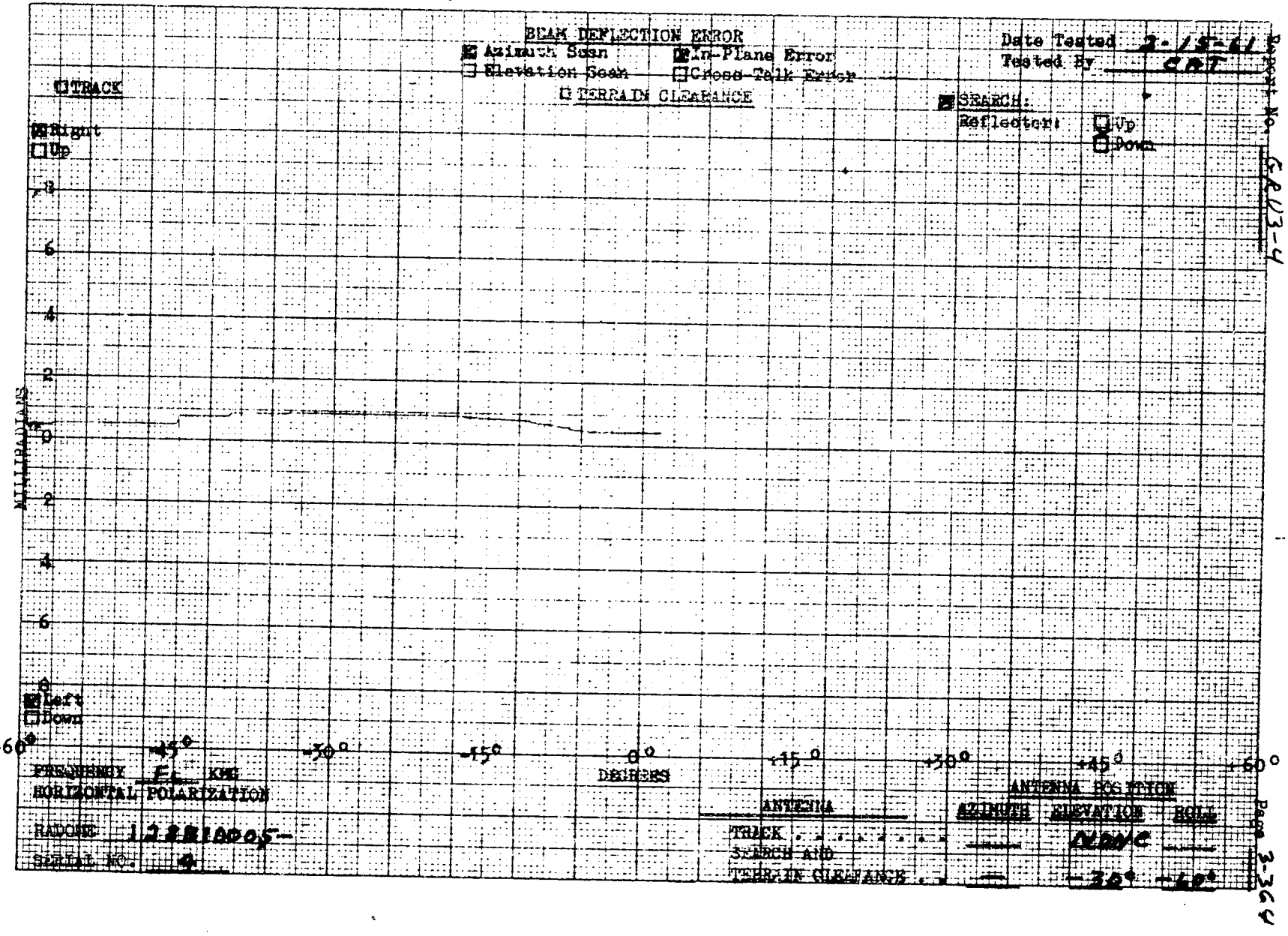

BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CRT
TRACK
Right
Up
SEARCH
Reflectors
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 6.4 KMC
HORIZONTAL POLARIZATION
MODEL 128B12005-
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
Nose
0°
-60°

ERW3-4


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
8
6
4
2
0
2
4
6
8
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY Fk KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-
DIGITAL NO. 4
AZIMUTH
TRACK
SEARCH AND
TERRAIN CLEARANCE
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
None
-5°
-60°
Report No. GRU3-4
Page 3-31


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN SEPARATOR
Date Tested 2-15-61
Tested by CAT
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
Left
Down
DECIBELS
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128131005-
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AND
TERRAIN SEPARATOR
ANTENNA POSITION
AZIMUTH ELEVATION ROLL
Nose
-10° -60°
Page 3-262


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
TRACK
Right
Up
SEARCH:
Reflector:
Up
Down
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 128B10005-
SERIAL NO. 4
ANTENNA POSITION
AZIMUTH
ELEVATION
ROLL
ANTENNA
TRACK
SEARCH AND
TERRAIN CLEARANCE
Horiz
-20°
-60°


BEAM DEFLECTION ERROR
Azimuth Scan
Elevation Scan
In-Plane Error
Cross-Talk Error
TERRAIN CLEARANCE
Date Tested 2-15-61
Tested By CAT
Report No. EA 43-4
TRACK
Right
Up
SEARCH:
Reflector: Up
Down
MILLIRADIANS
Left
Down
-60°
-45°
-30°
-15°
0°
+15°
+30°
+45°
+60°
DEGREES
FREQUENCY 5.4 KMC
HORIZONTAL POLARIZATION
RADOME 1228100-5
SERIAL NO. 4
ANTENNA
TRACK
SEARCH AID
TERRAIN CLEARANCE
ANTENNA ECS SYNCH
AZIMUTH ELEVATION ROLL
ON
-30° -40°
Page 3-364

UNCLASSIFIED

UNCLASSIFIED