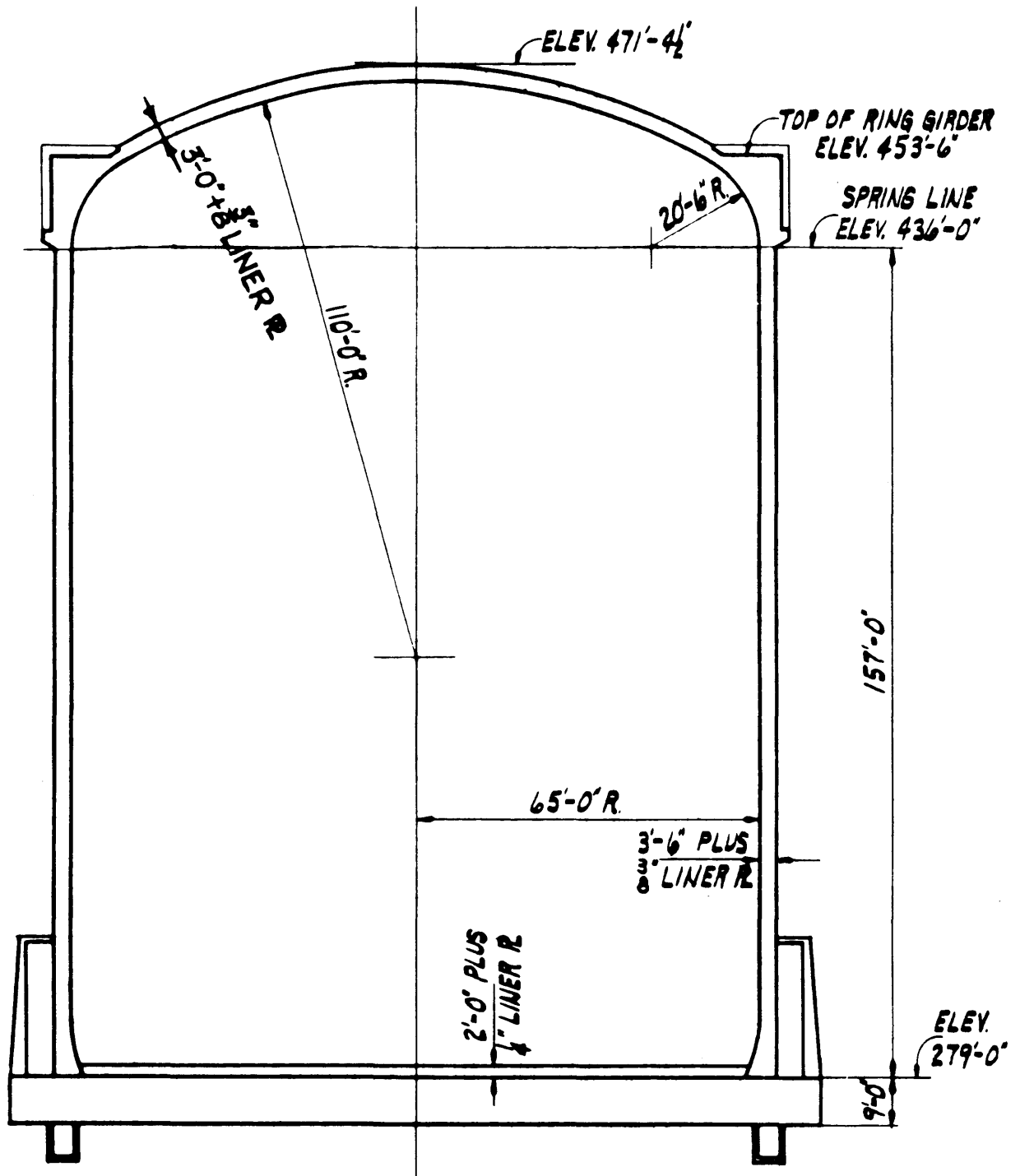




p. 5E.FIG-1

GPU Nuclear

TMI Unit-1

Reactor Building - Cross Section

Update - 1

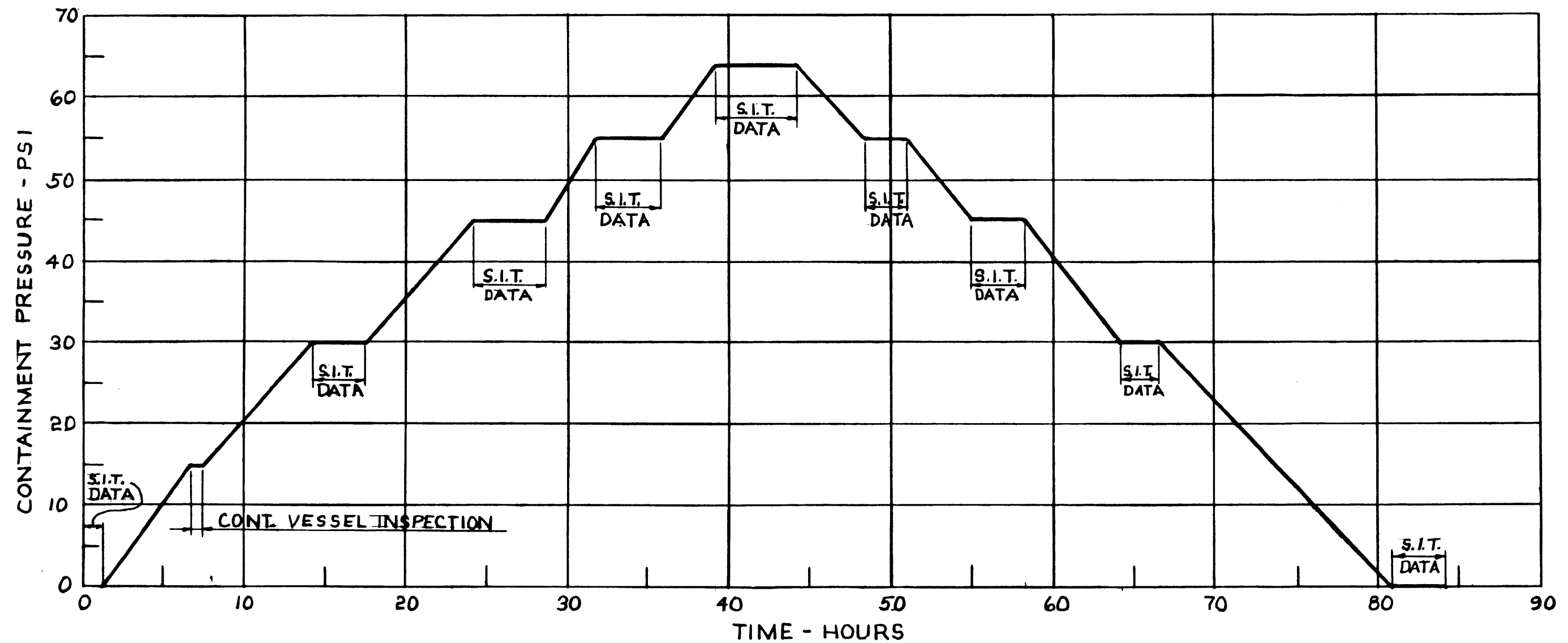
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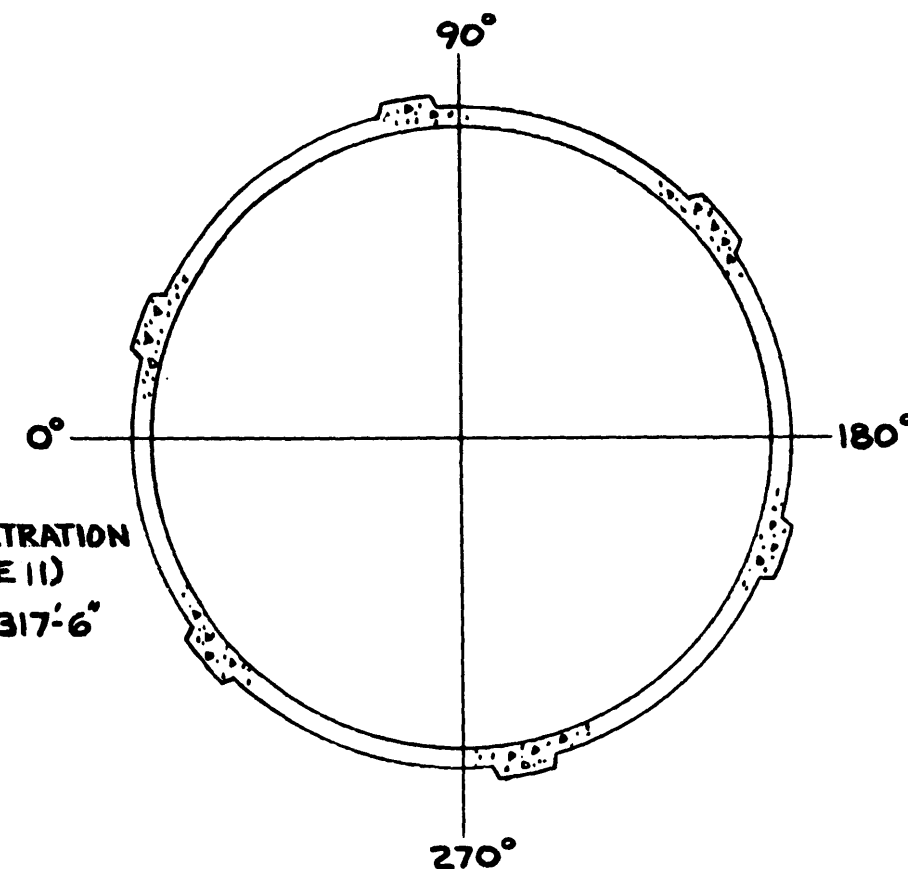
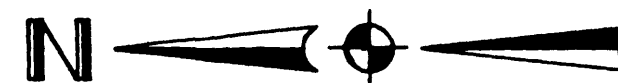
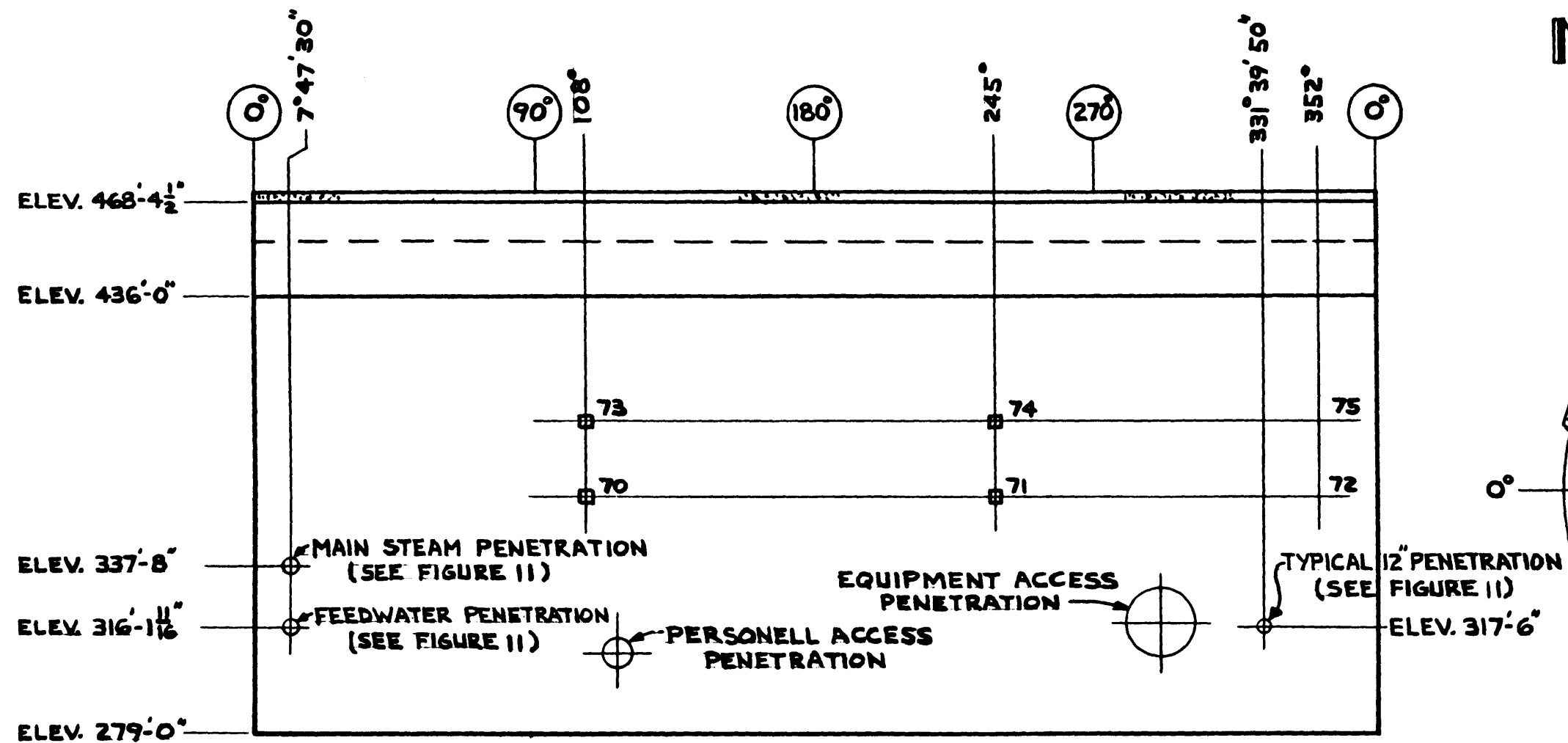
Fig. 5E-1

NOTES:

1. S.I.T. - STRUCTURAL INTEGRITY TEST

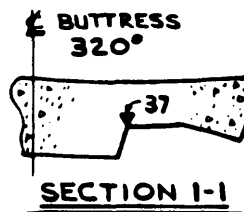
2. INCREASE PRESSURE AT APPROX. 2.5 PSI/HR.
DECREASE PRESSURE AT APPROX. 2.5 PSI/HR.





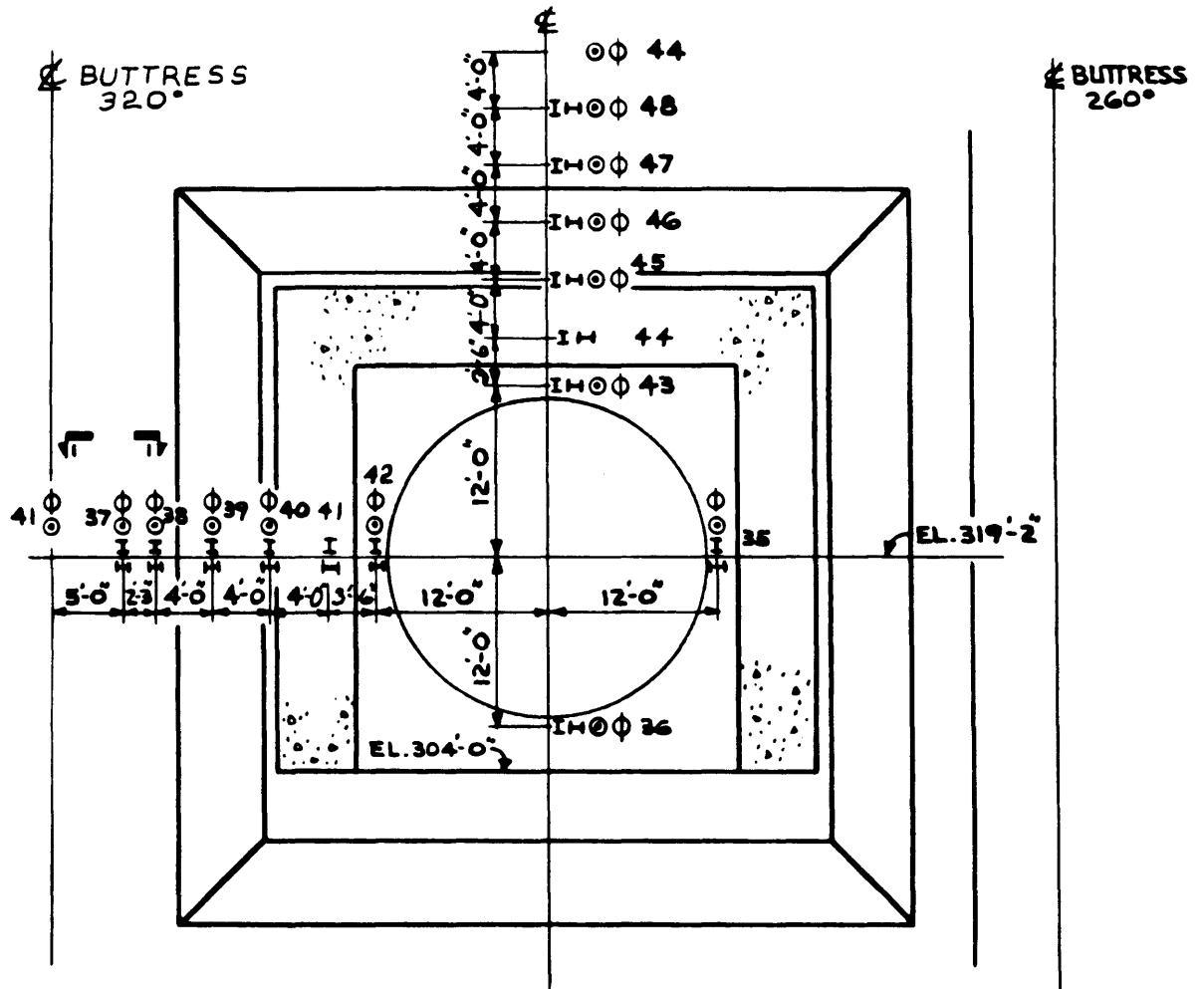
LEGEND

ROSETTE SHAPED STRAIN GAGE ON LINER SURFACE



NOTE:

THIS DRAWING SUPERCEDES FIGURE 5, "INSTRUMENTATION EQUIPMENT ACCESS - OUTSIDE FACE"; IN GAI REPORT N2 1710, "PRELIMINARY REPORT ON STRUCTURAL INTEGRITY TESTING OF REACTOR CONTAINMENT STRUCTURE FOR THREE MILE ISLAND NUCLEAR STATION, UNIT 1; METROPOLITAN EDISON COMPANY."



LEGEND

- H STRAIN GAUGE ON REINFORCING - HORIZONTAL DIRECTION
- V STRAIN GAUGE ON REINFORCING - VERTICAL DIRECTION
- O LVDT (RADIAL)
- Φ LVDT (VERTICAL)

GPU Nuclear

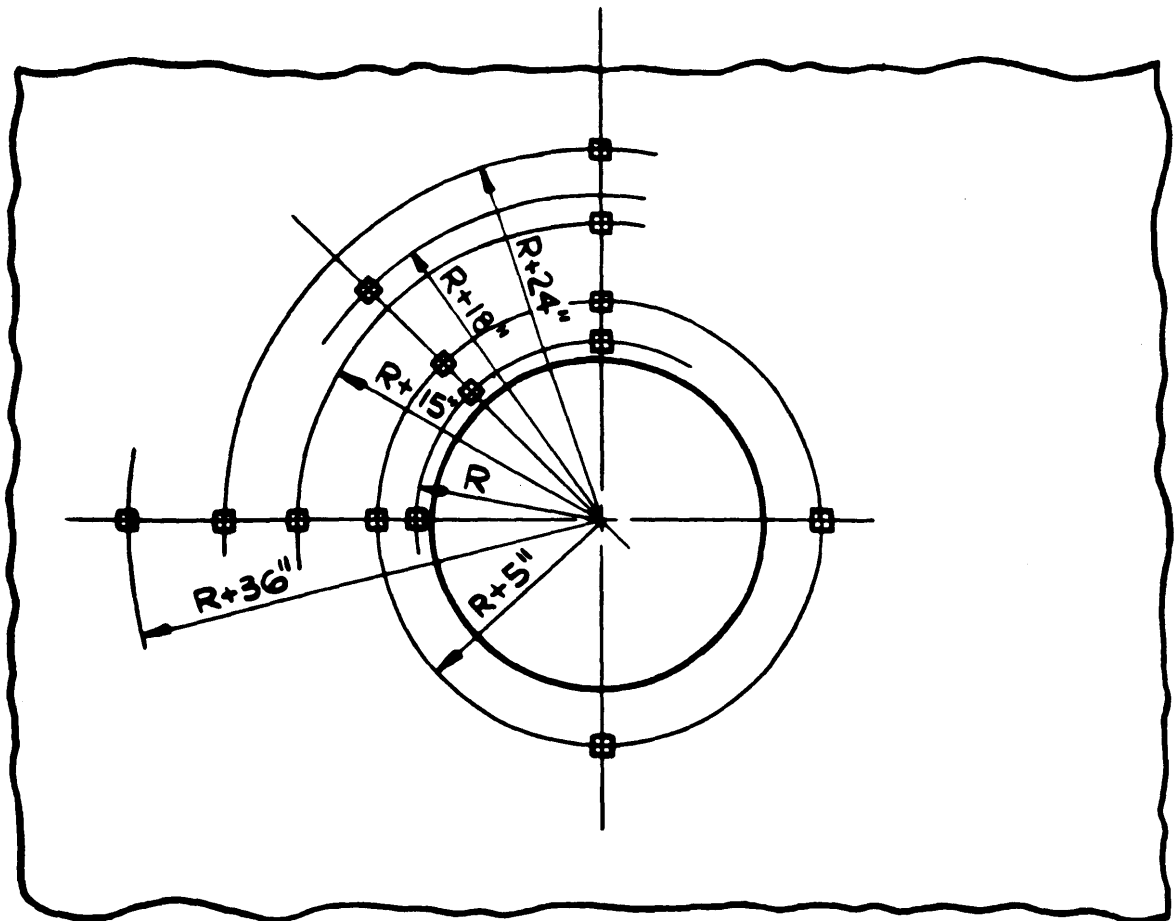
TMI Unit-1

**Instrumentation - Equipment Access -
Outside Face**

Update - 1

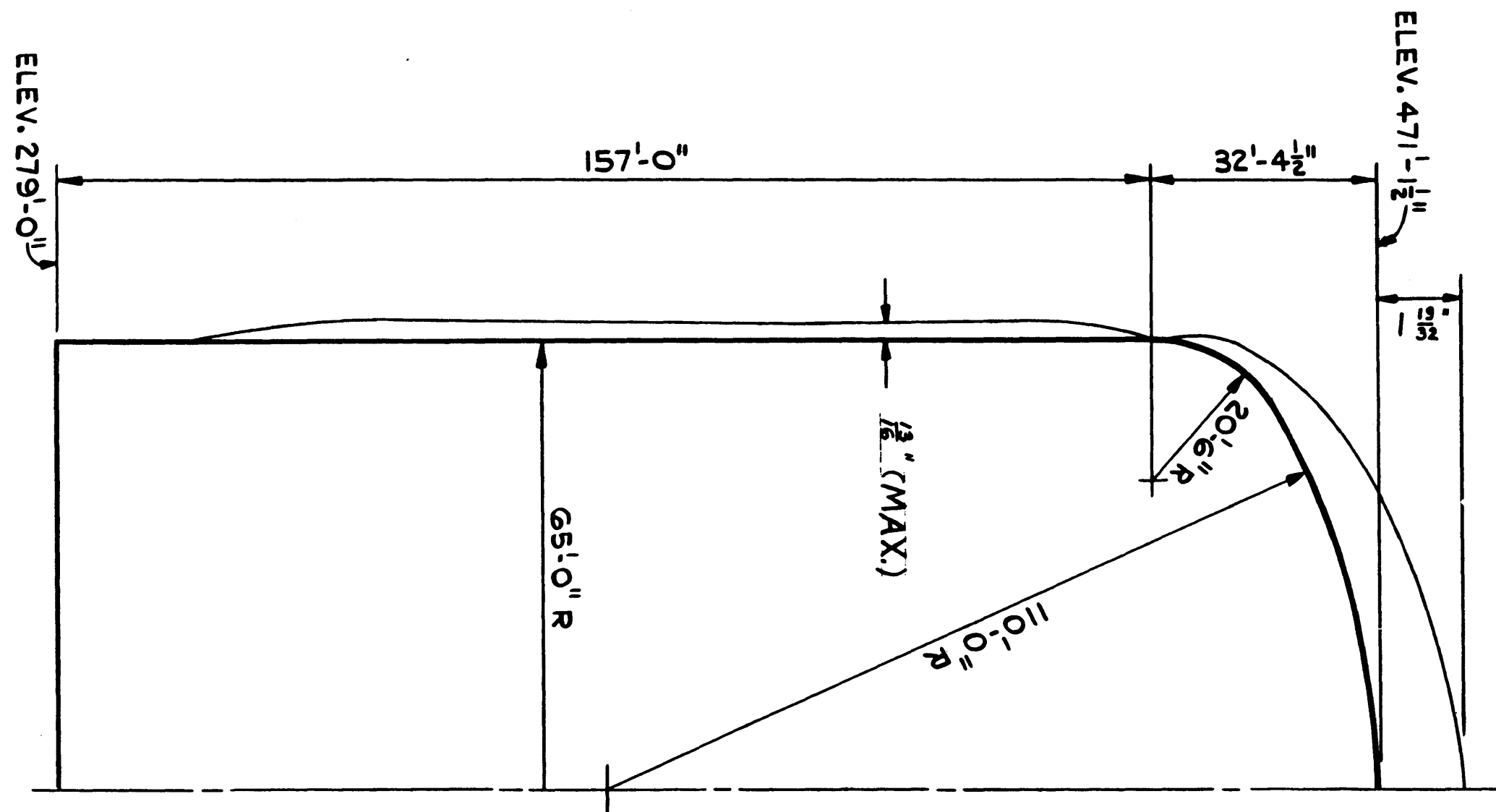
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Fig. 5E-5



NOTE: THE ABOVE ROSETTE SHAPED STRAIN GAUGE LAYOUT IS APPLICABLE FOR THE MAIN STEAM ($R=23''$), FEEDWATER ($R=23''$), AND A TYPICAL 12" PENETRATION ($R=10''$)

LEGEND: $\square$ ROSETTE SHAPED STRAIN GAUGE ON LINER SURFACE



GPU Nuclear
TMI Unit-1

Update - 1
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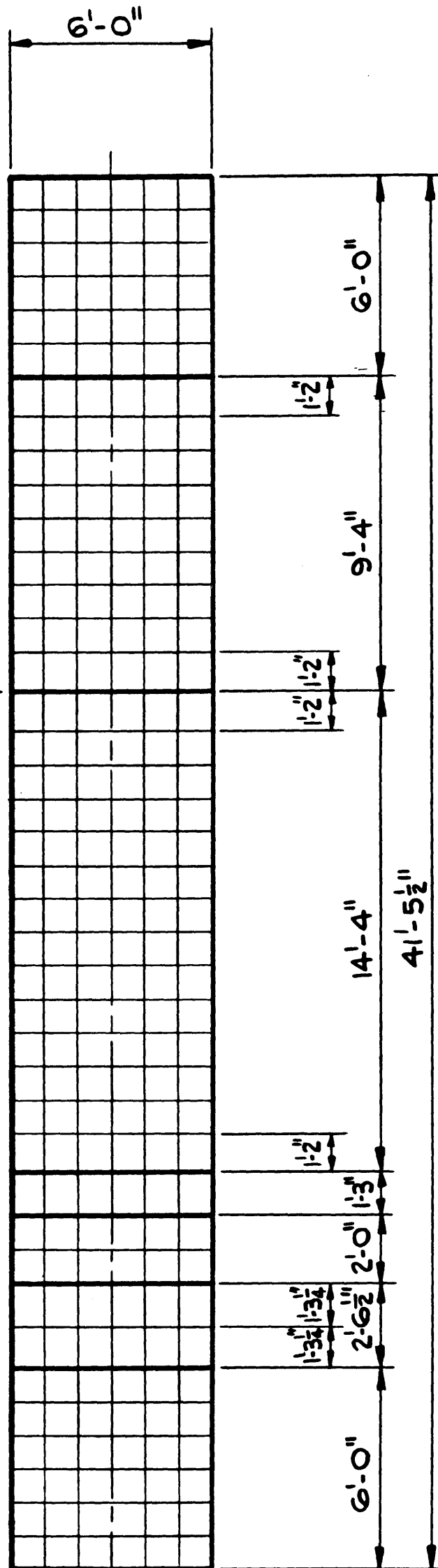
Radial Displacements of Reactor Building

Fig. 5E-7

NOTES:

1. 1'-0" GRIDS UNLESS SHOWN OTHERWISE - GRIDS SHOWN TO AID SKETCHING OF CRACK PATTERN
2. CRACK PATTERNS WILL BE ESSENTIALLY THAT OF EXISTING HAIRLINE SHRINKAGE CRACKS. CRACK WIDTH SHOULD BE LESS THAN 0.010".
3. FOR LOCATION, SEE FIGURE 3

ELEV. 453'-6"



⊕-AZIMUTH 175°

AREA No. 120

GPJ Nuclear

TMI Unit-1

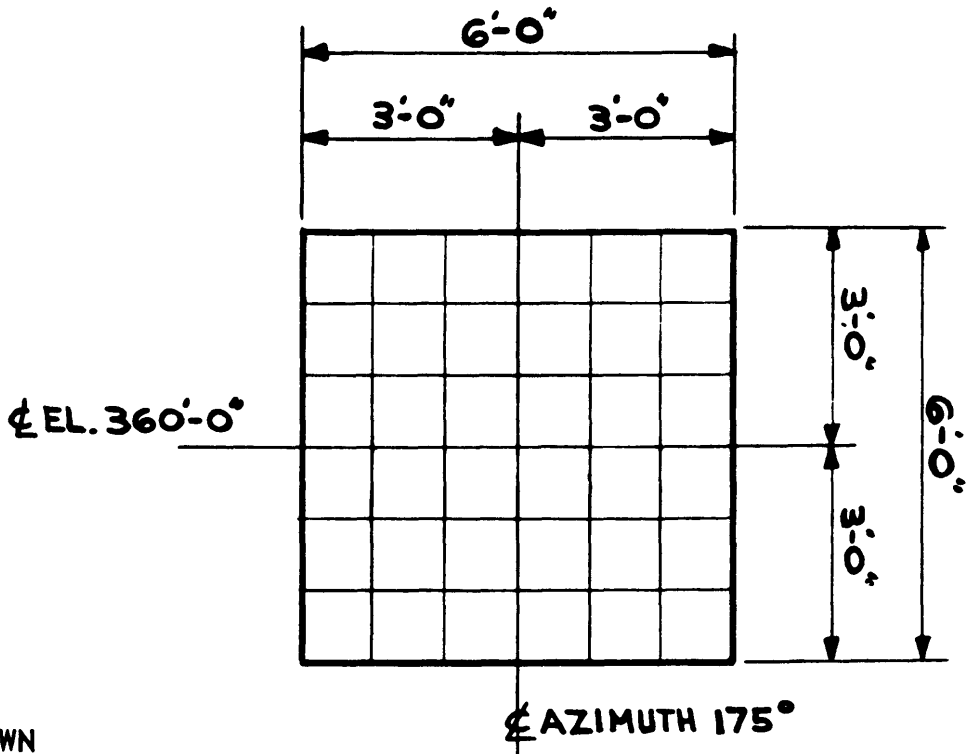
Update -1

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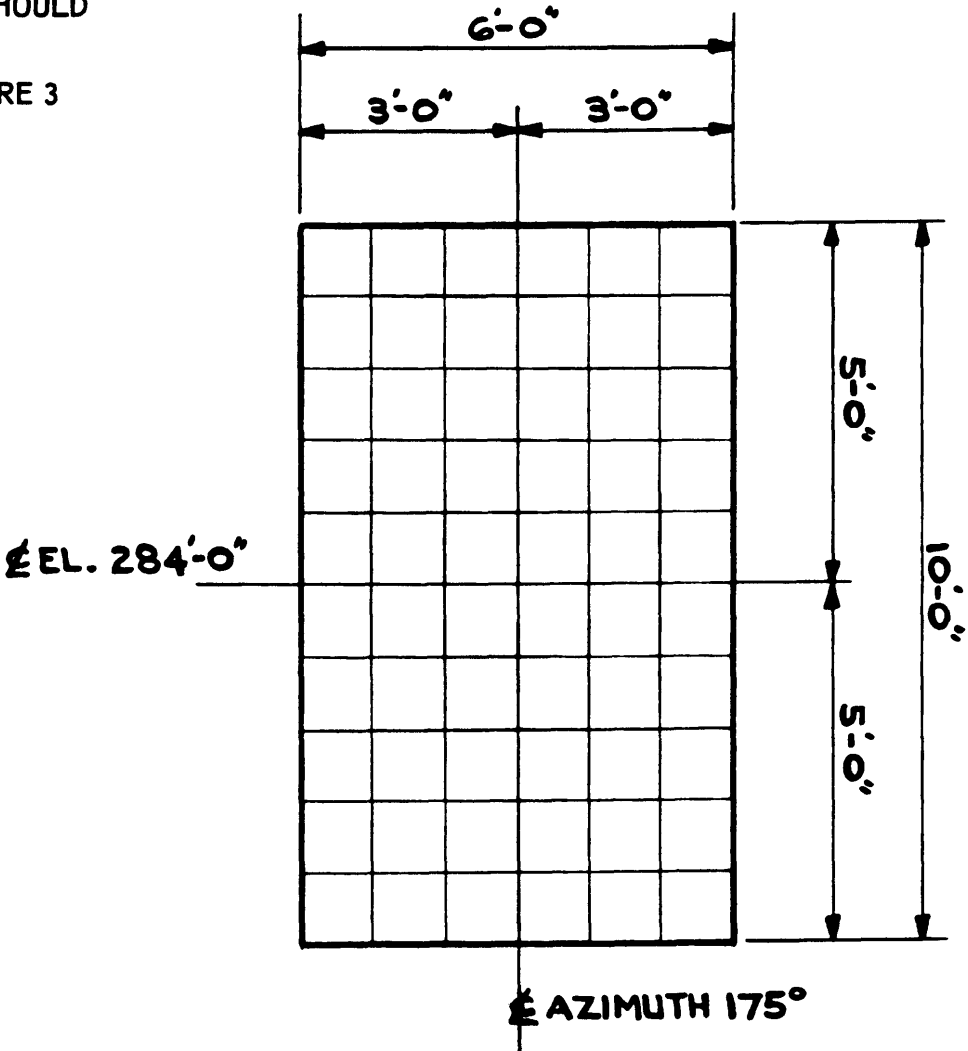
Crack Patterns - Wall and Dome Junction

Fig. 5E-8

AREA No. 119



AREA No. 118



NOTES:

1. 1'-0" GRIDS UNLESS SHOWN OTHERWISE - GRIDS SHOWN TO AID SKETCHING OF CRACK PATTERN
2. CRACK PATTERNS WILL BE ESSENTIALLY THAT OF EXISTING HAIRLINE SHRINKAGE CRACKS. CRACK WIDTH SHOULD BE LESS THAN 0.010"
3. FOR LOCATION, SEE FIGURE 3

GTI Nuclear

TMI Unit-1

Crack Patterns - Wall

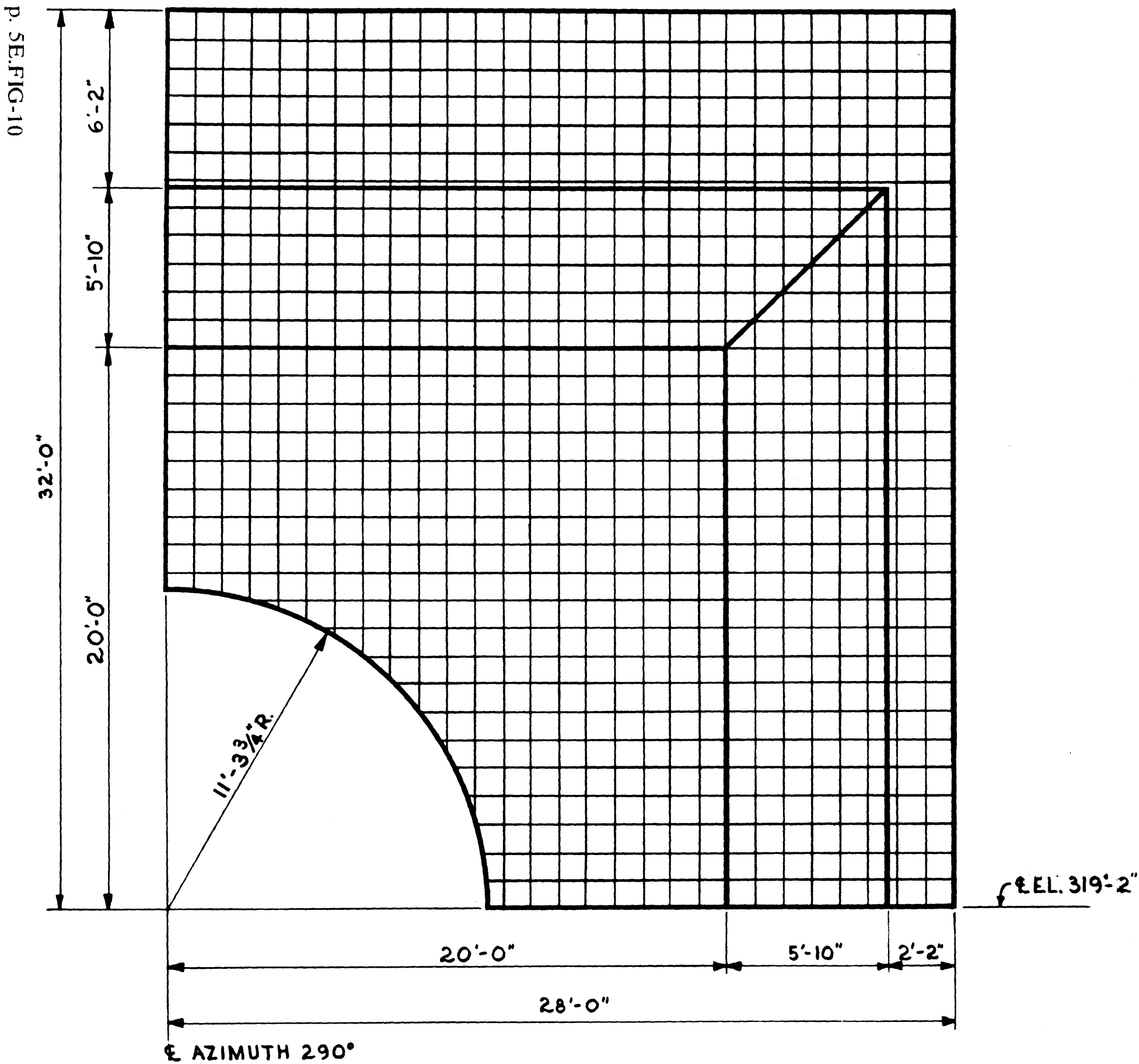
Update - 1

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Fig. 5E-9

NOTES:

1. 1'-0" GRIDS UNLESS SHOWN OTHERWISE - GRIDS SHOWN TO AID SKETCHING OF CRACK PATTERN
2. CRACK PATTERNS WILL BE ESSENTIALLY THAT OF EXISTING HAIRLINE SHRINKAGE CRACKS. CRACK WIDTH SHOULD BE LESS THAN 0.010"
3. FOR LOCATION, SEE FIGURE 3

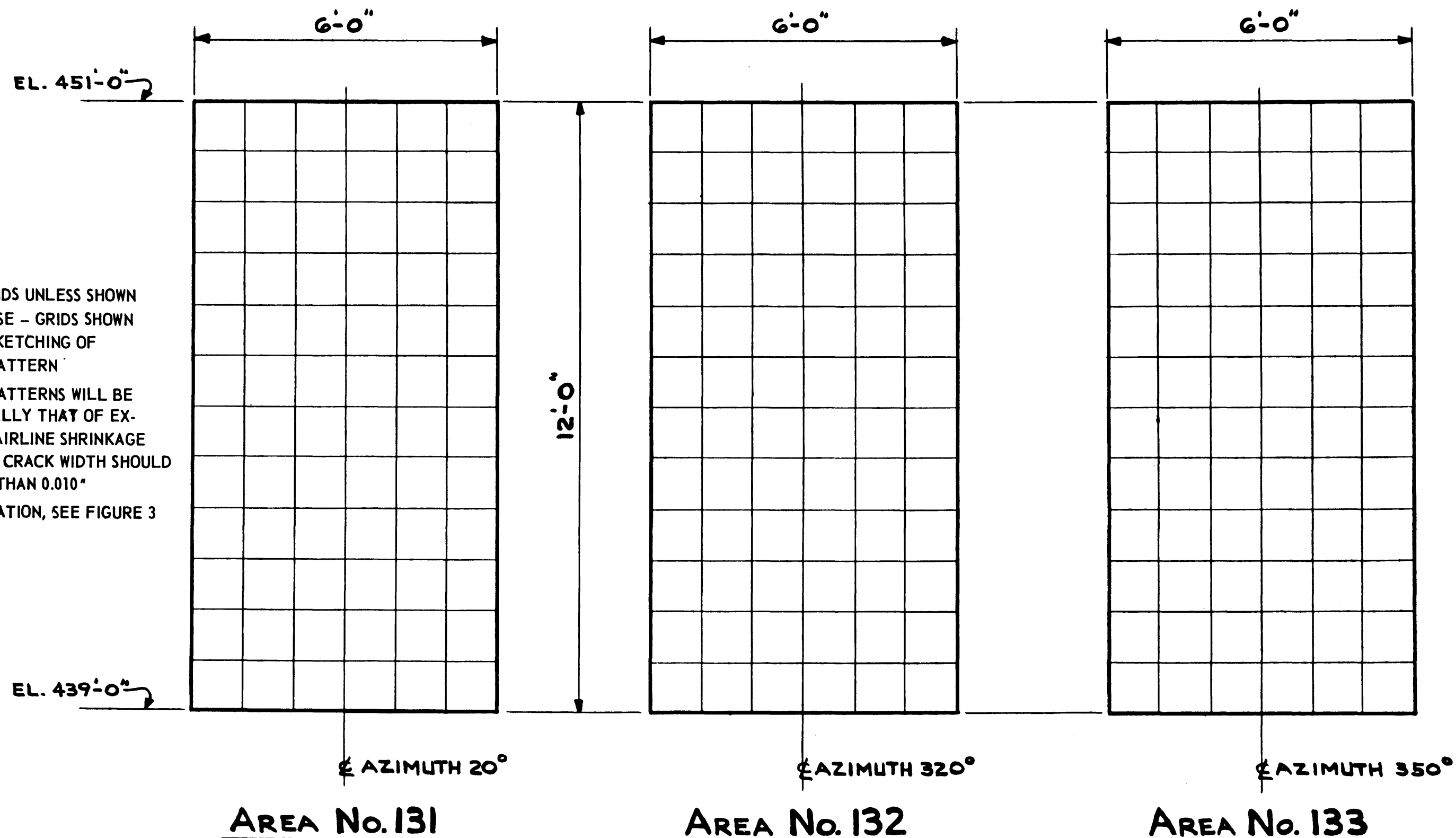


AREA No. 121

GF Nuclear	Update - 1
TMI Unit-1	7/82
Crack Patterns - Equipment Access	
Fig. 5E-10	

NOTES:

1. 1'-0" GRIDS UNLESS SHOWN OTHERWISE - GRIDS SHOWN TO AID SKETCHING OF CRACK PATTERN
2. CRACK PATTERNS WILL BE ESSENTIALLY THAT OF EXISTING HAIRLINE SHRINKAGE CRACKS. CRACK WIDTH SHOULD BE LESS THAN 0.010"
3. FOR LOCATION, SEE FIGURE 3

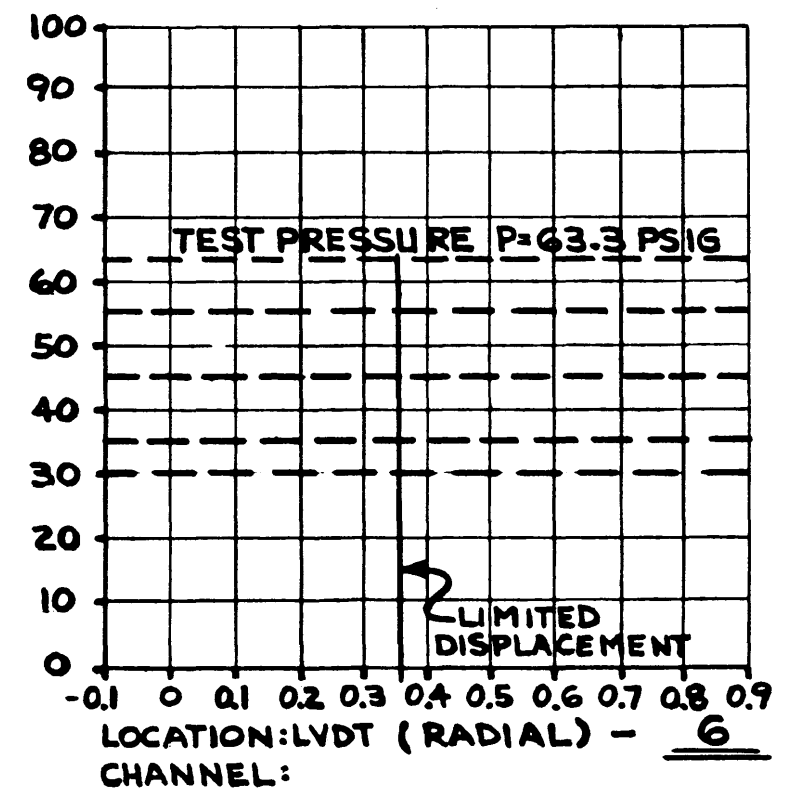
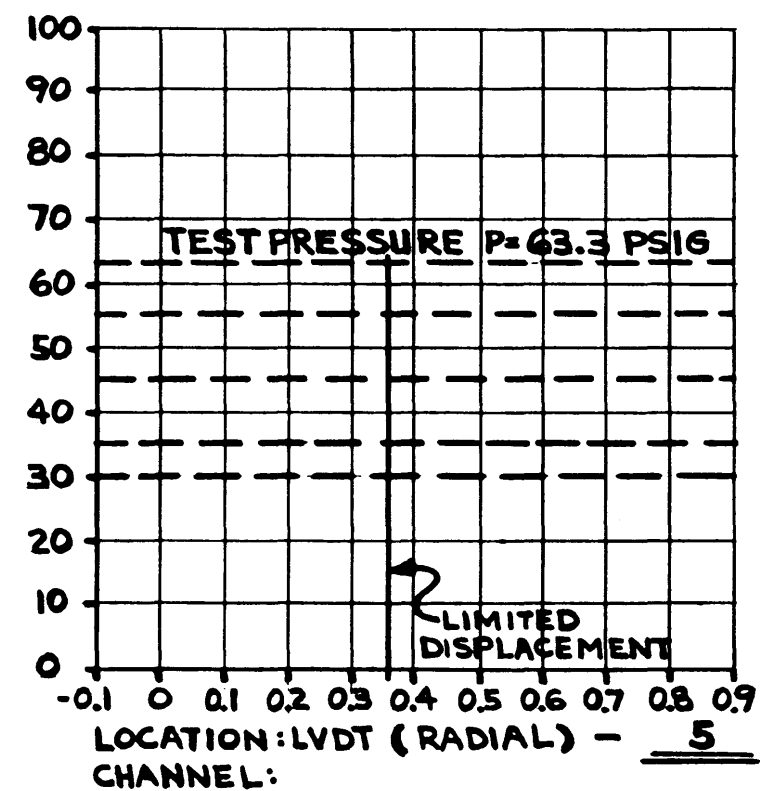
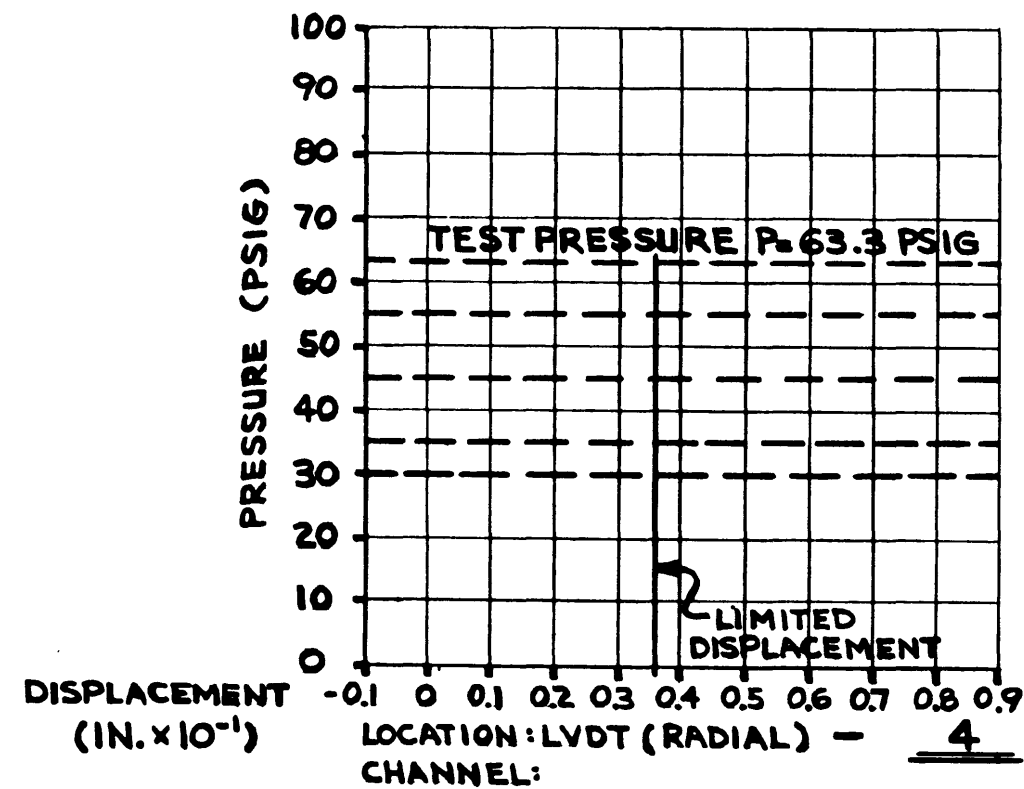
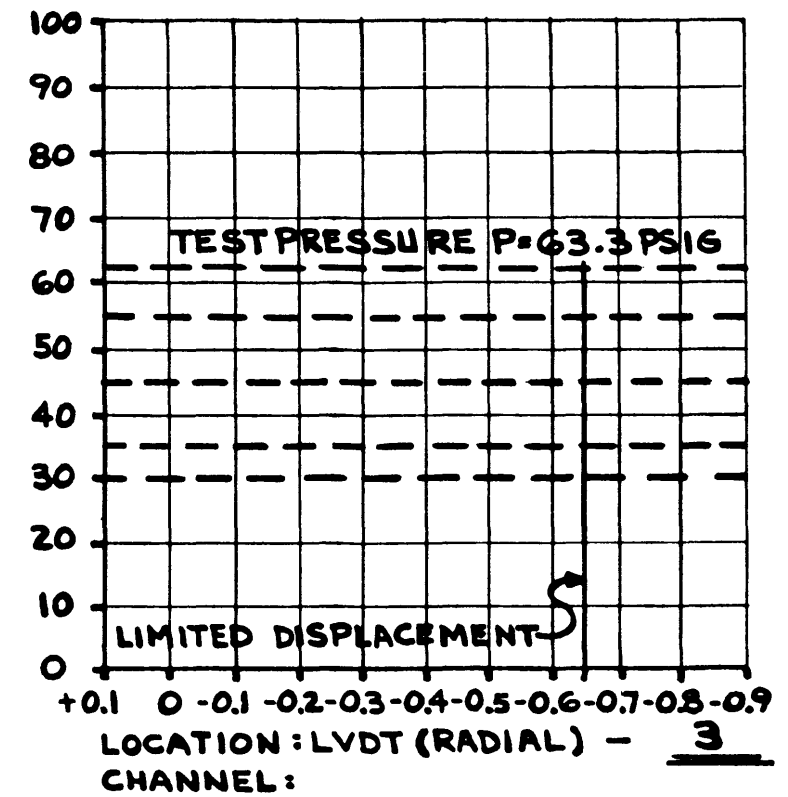
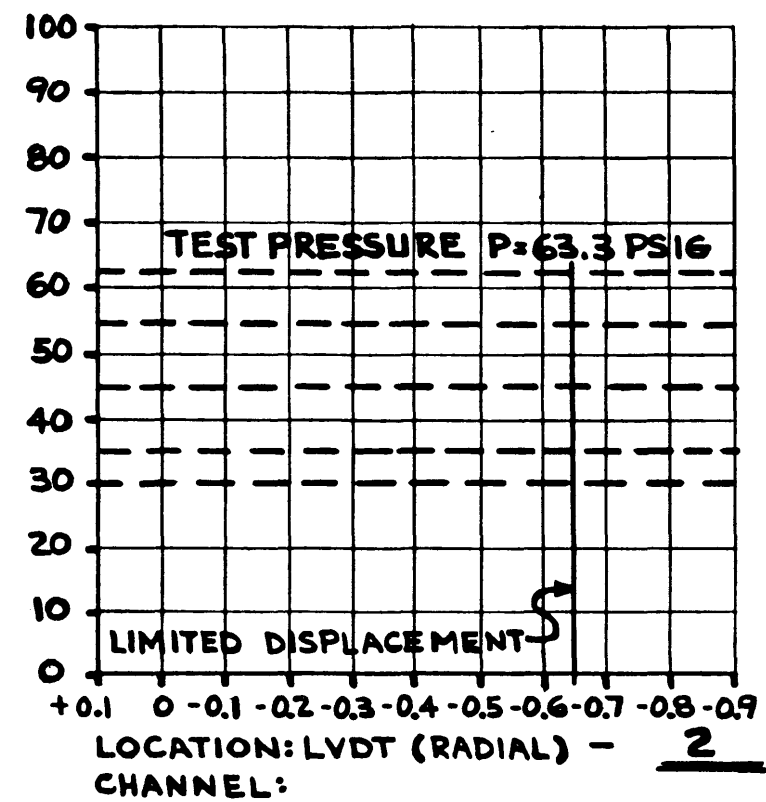
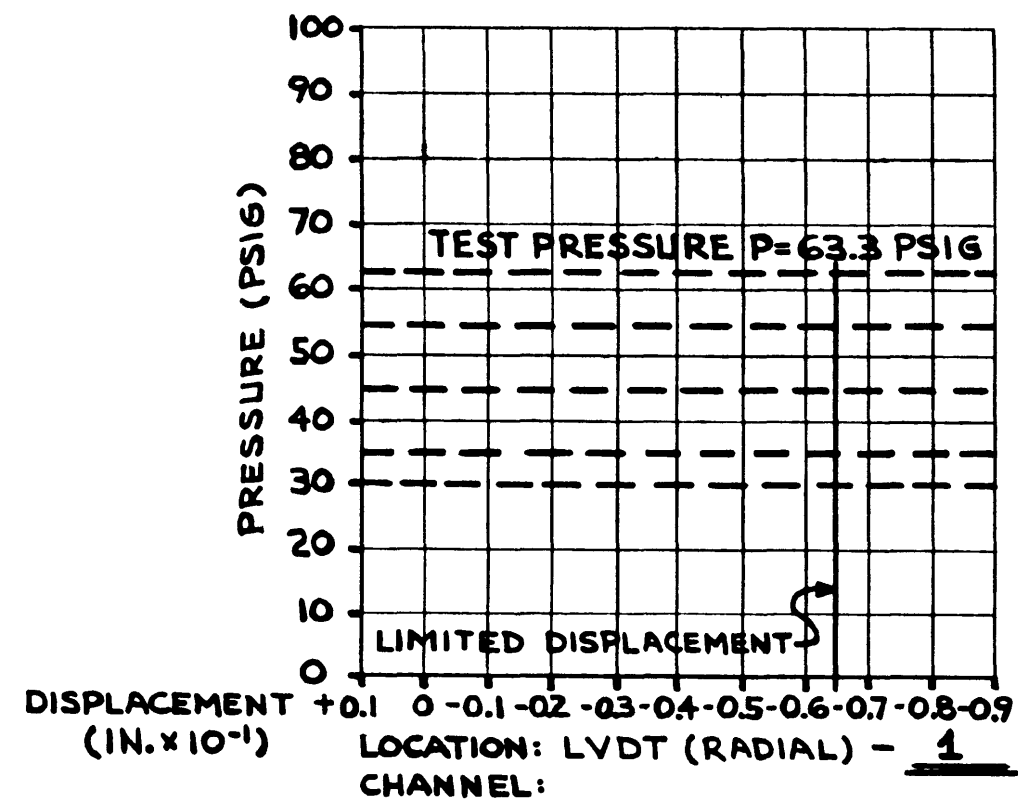


GPU Nuclear
TMI Unit-1

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Crack Patterns - Concrete Ring Beam Area

Fig. 5E-11



GPU Nuclear

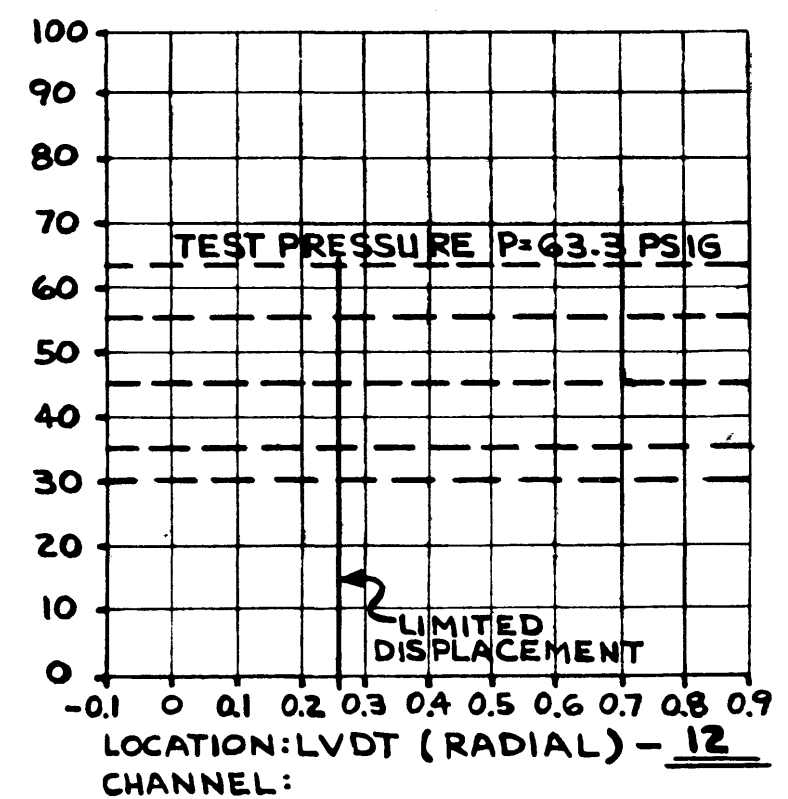
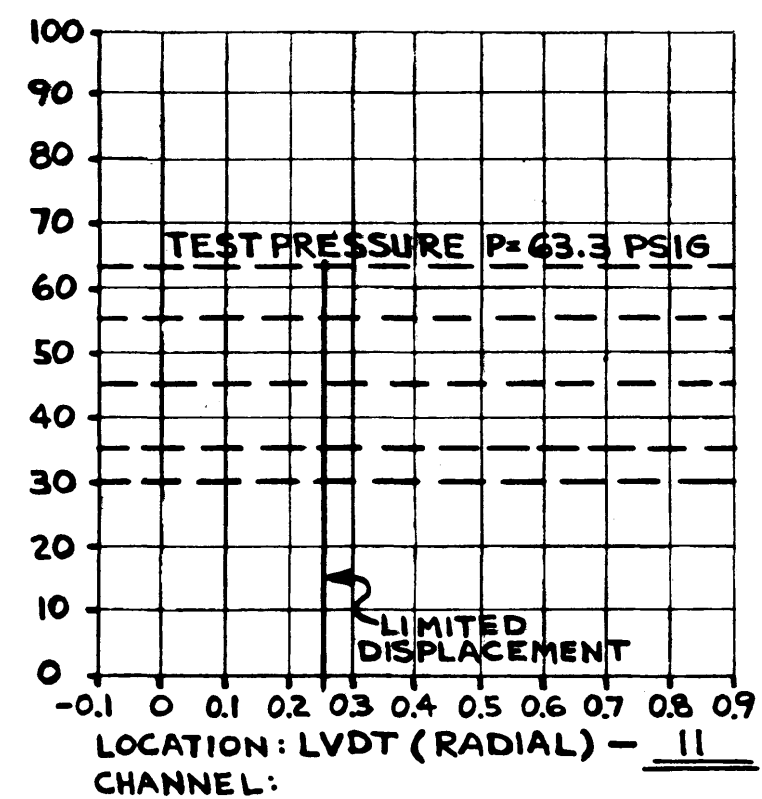
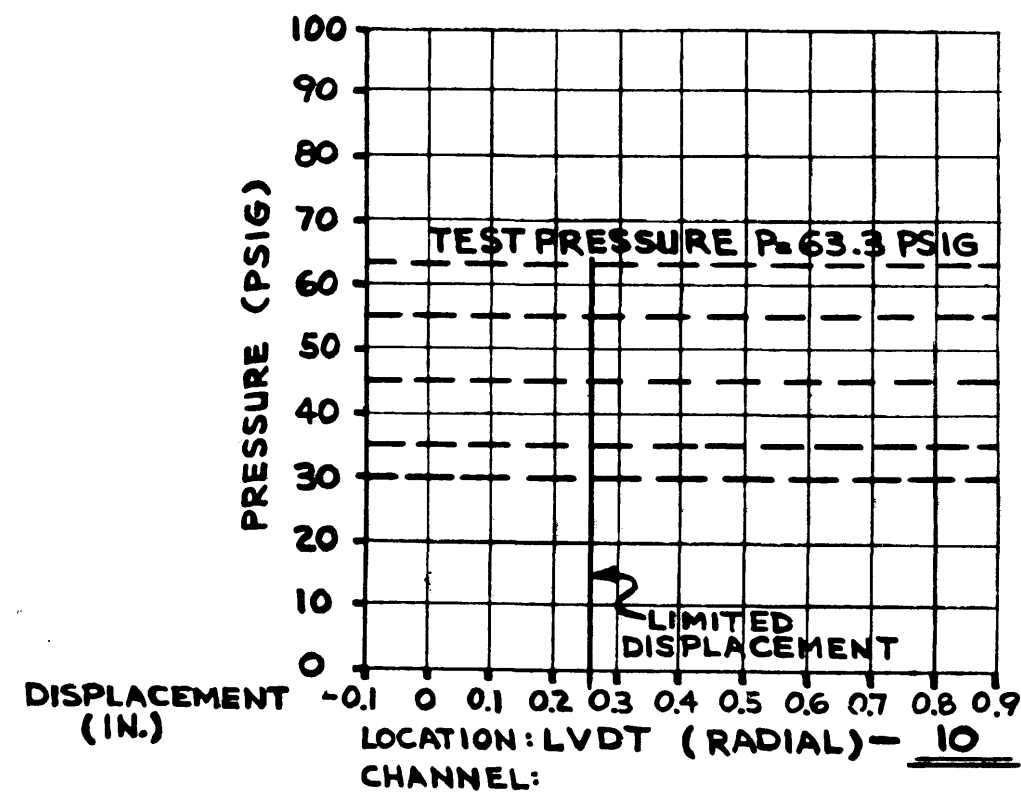
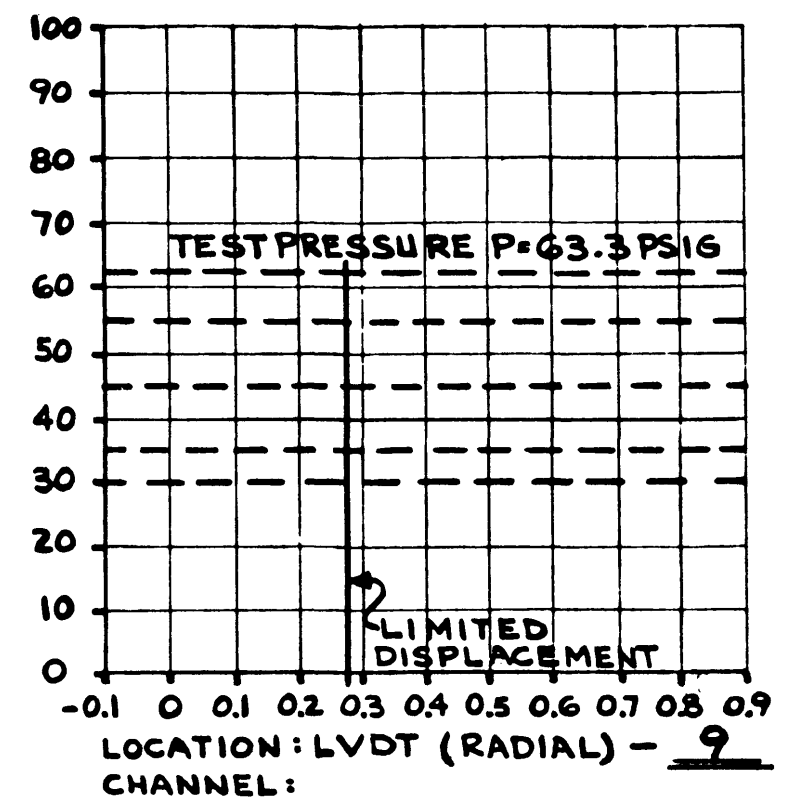
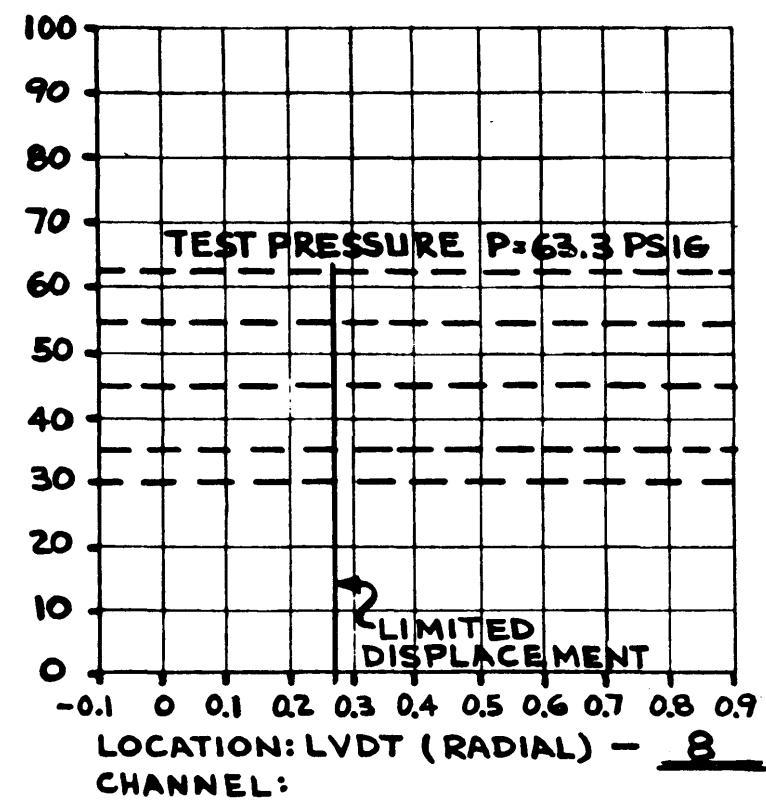
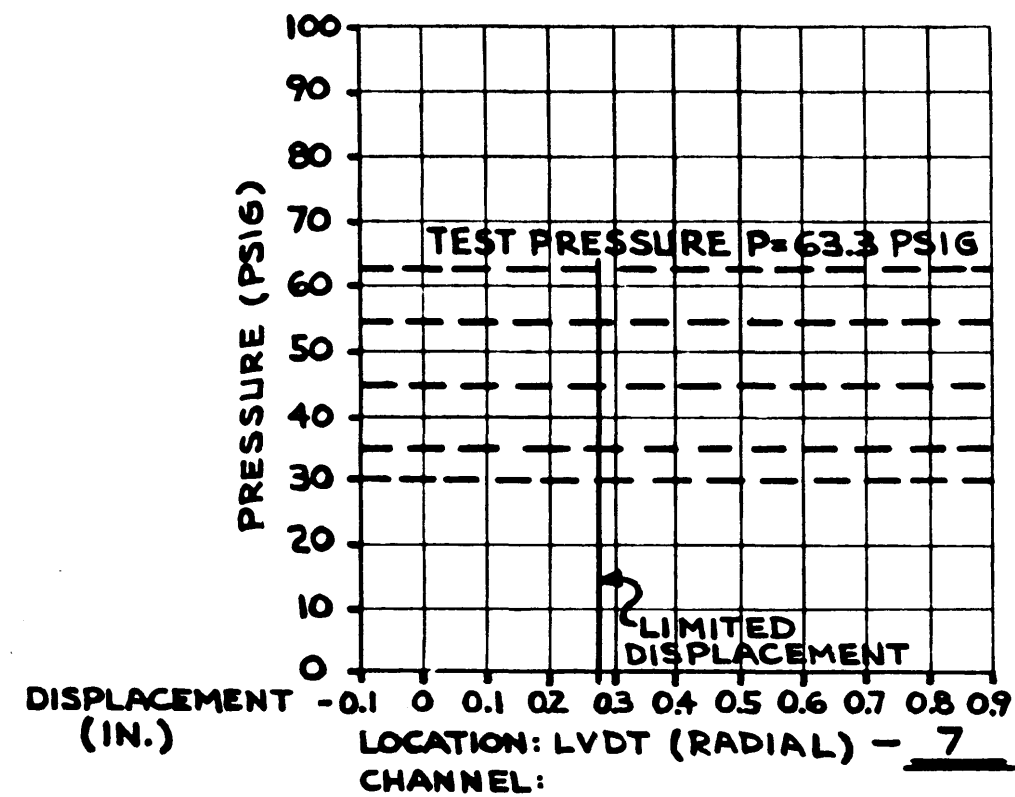
TMI Unit-1

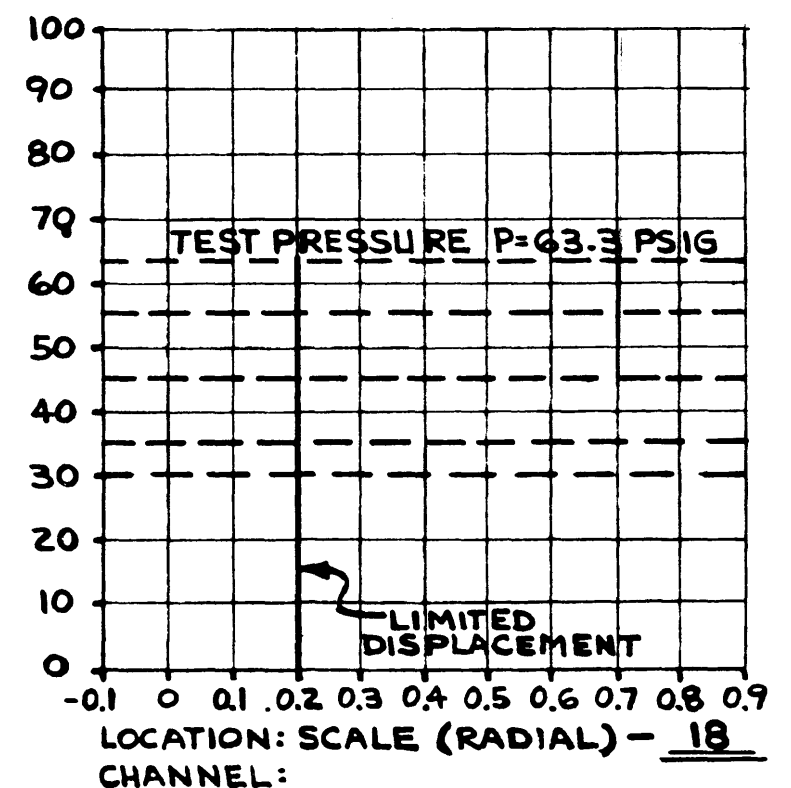
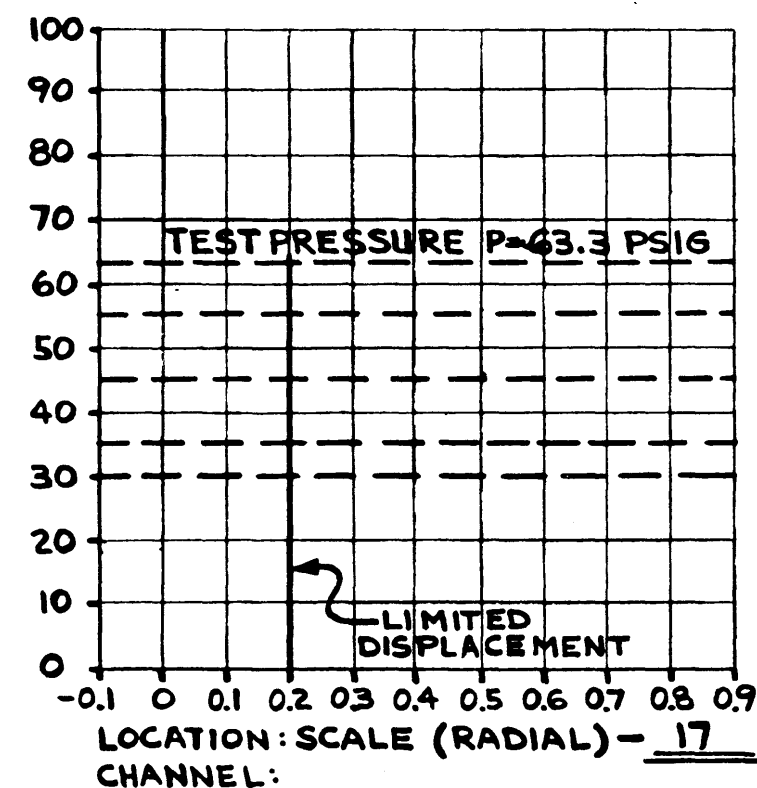
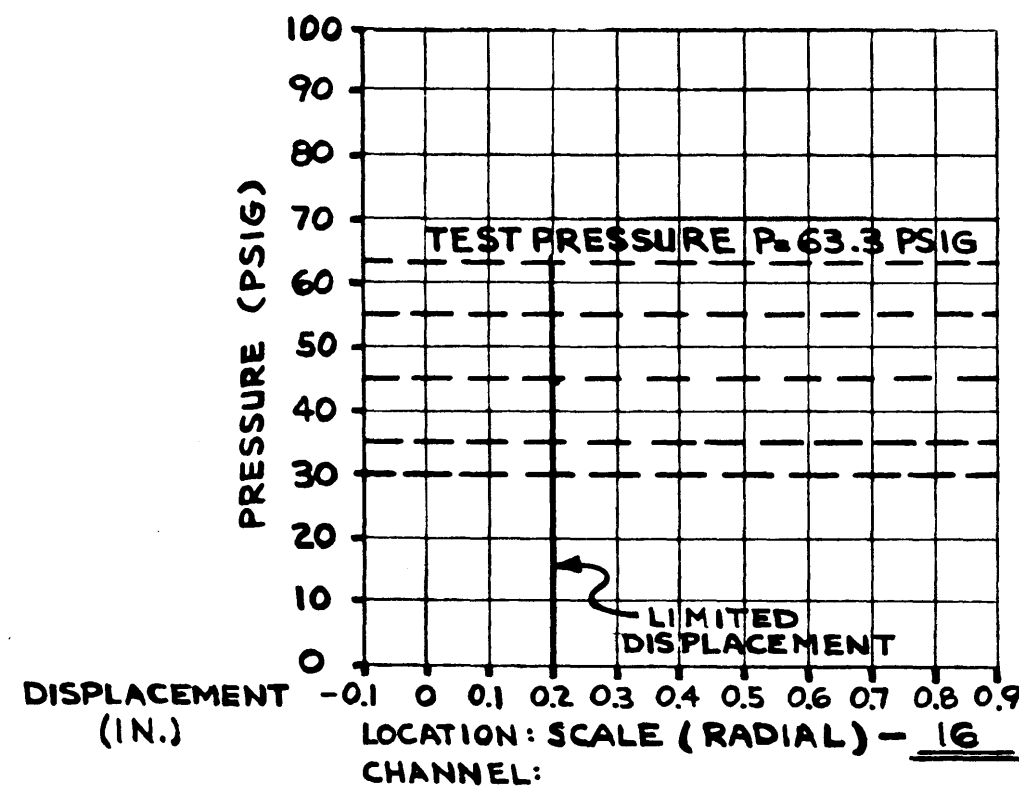
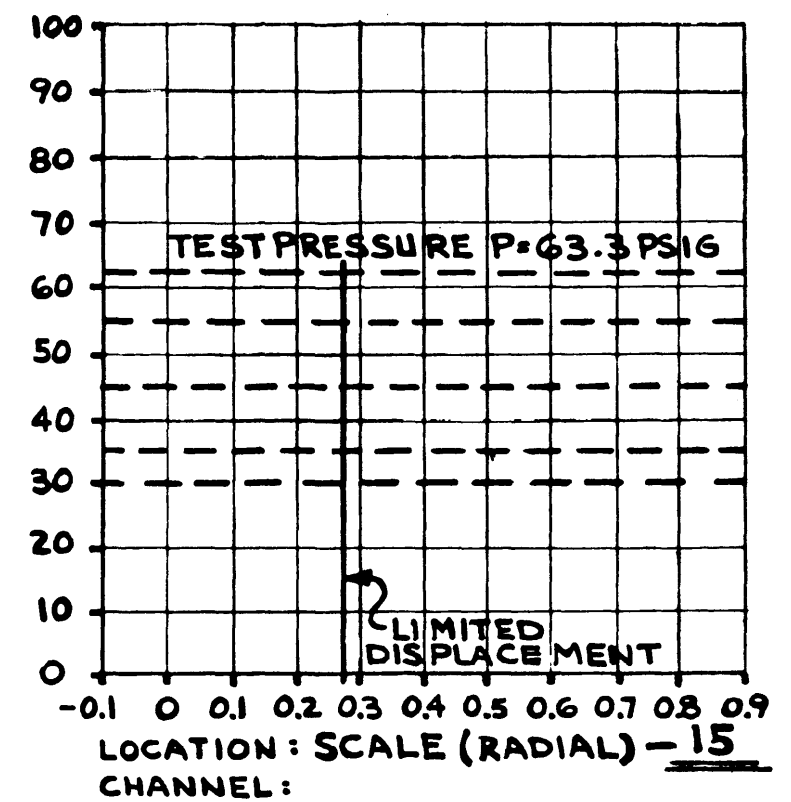
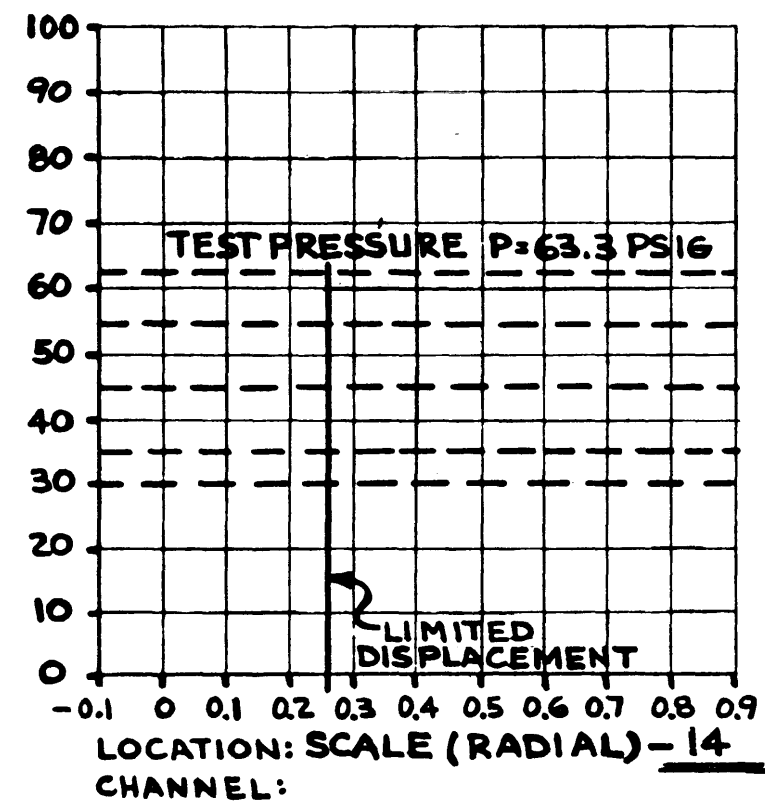
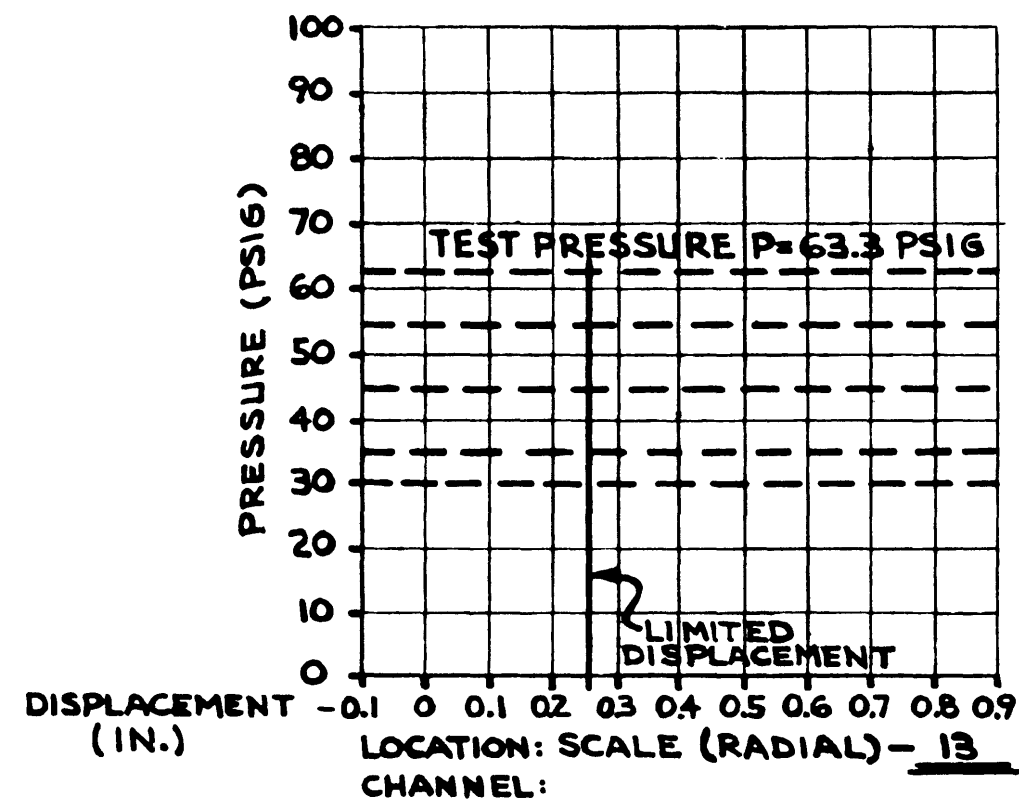
Cylinder Base Radial Displacement

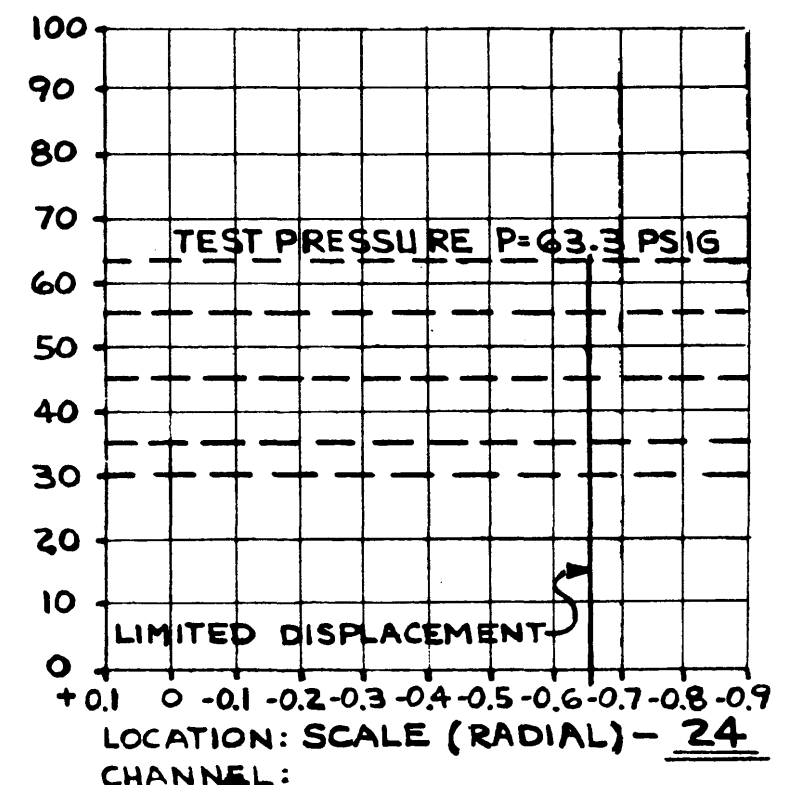
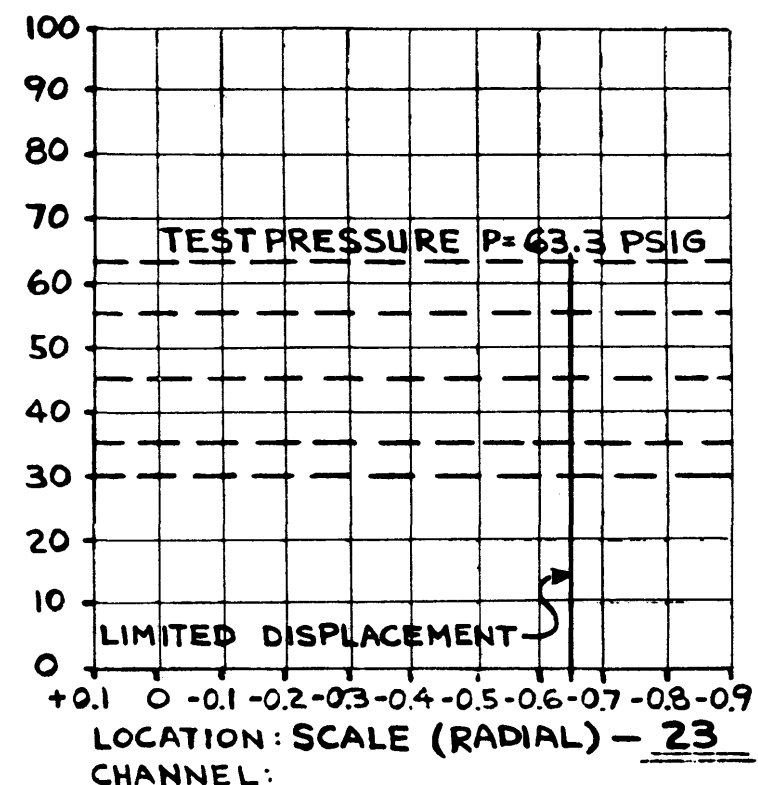
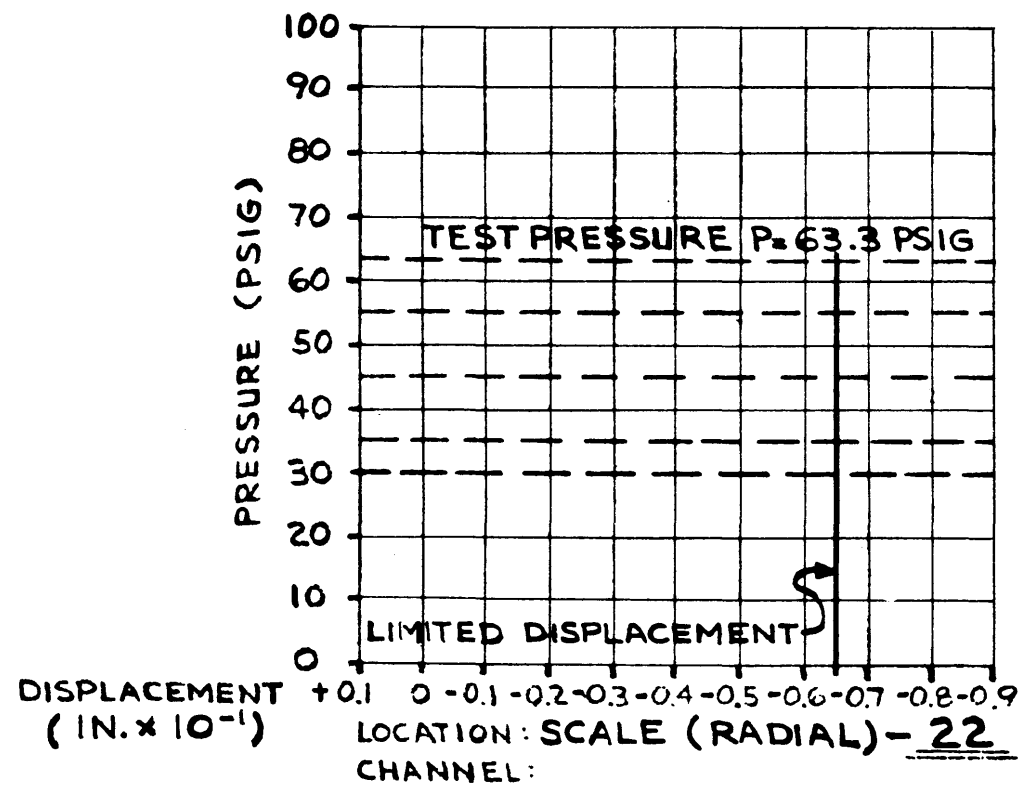
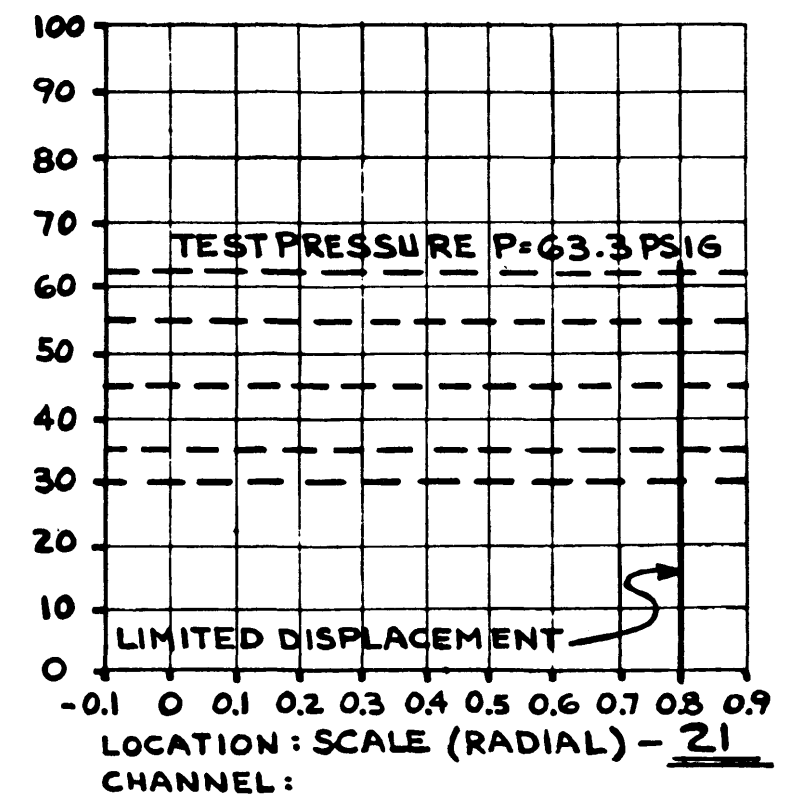
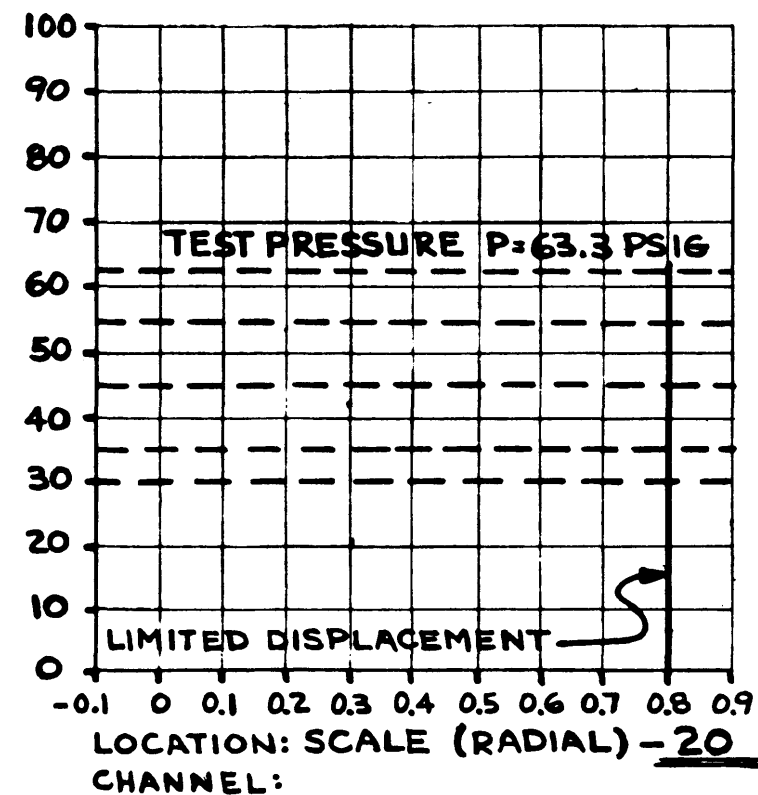
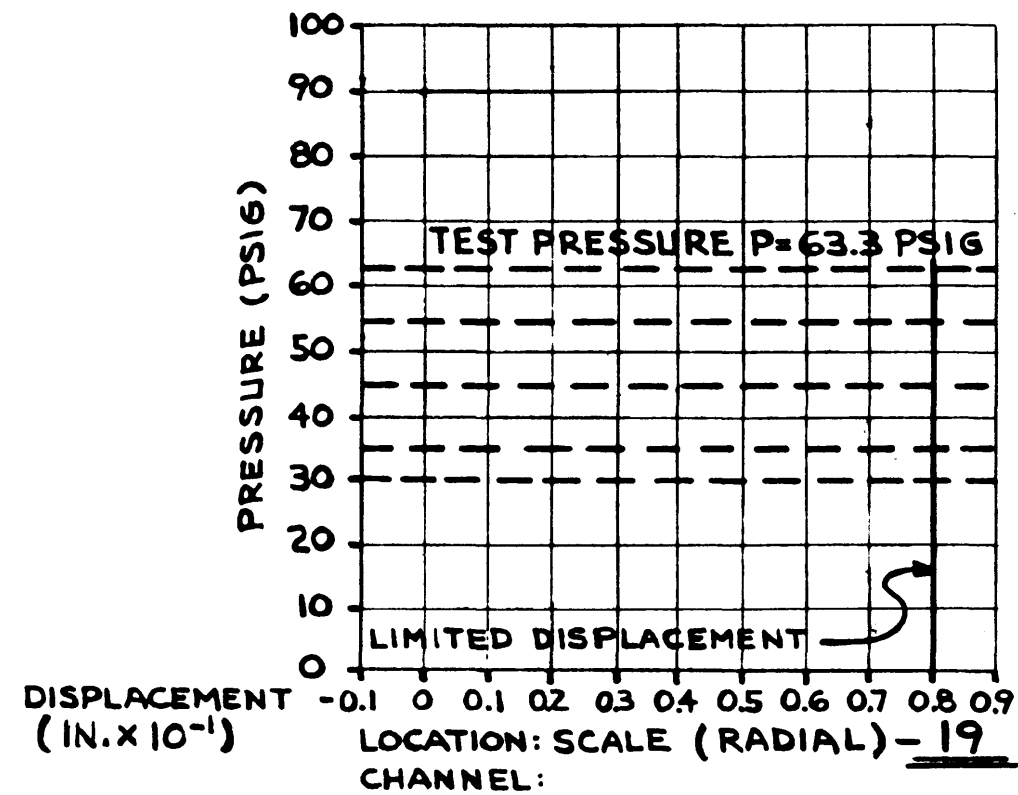
Update - 1

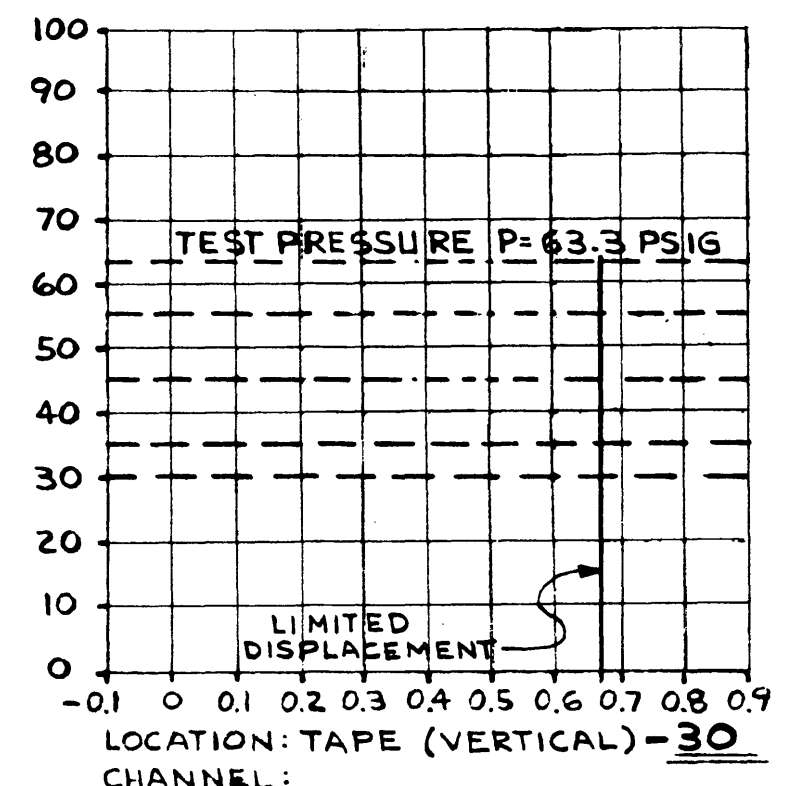
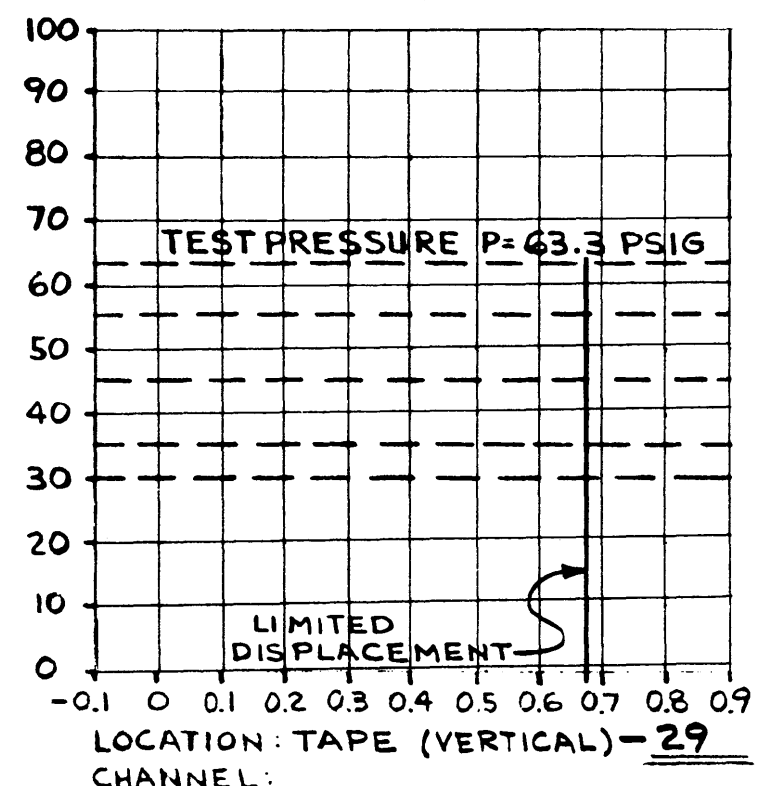
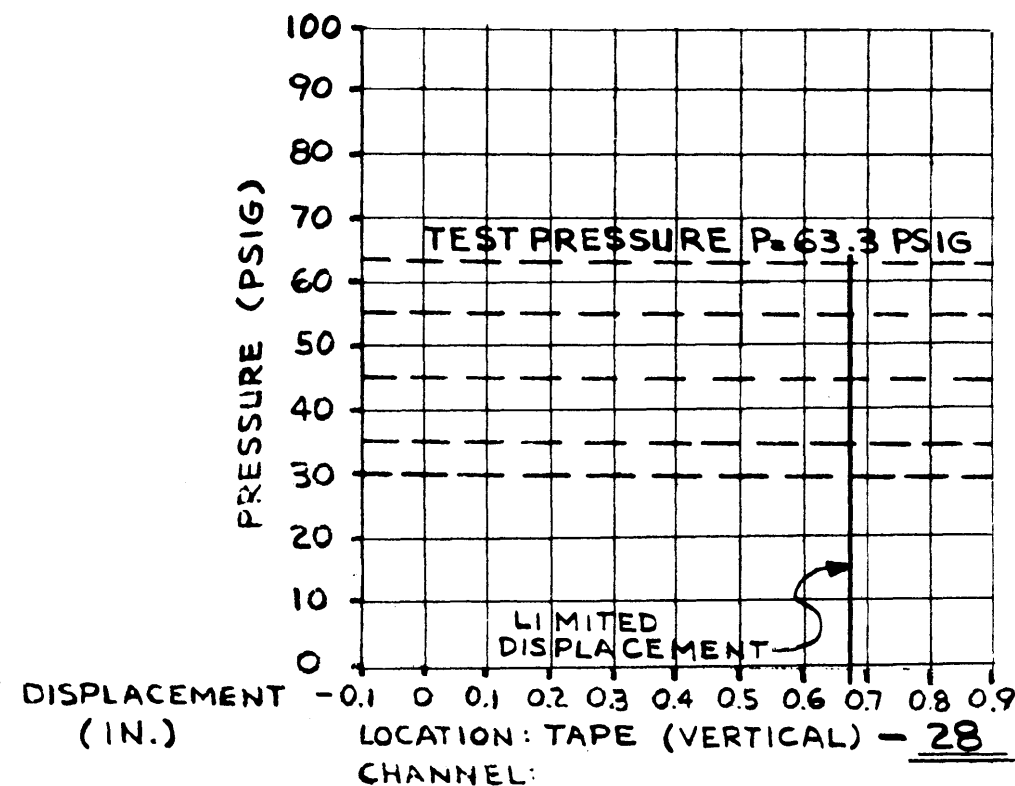
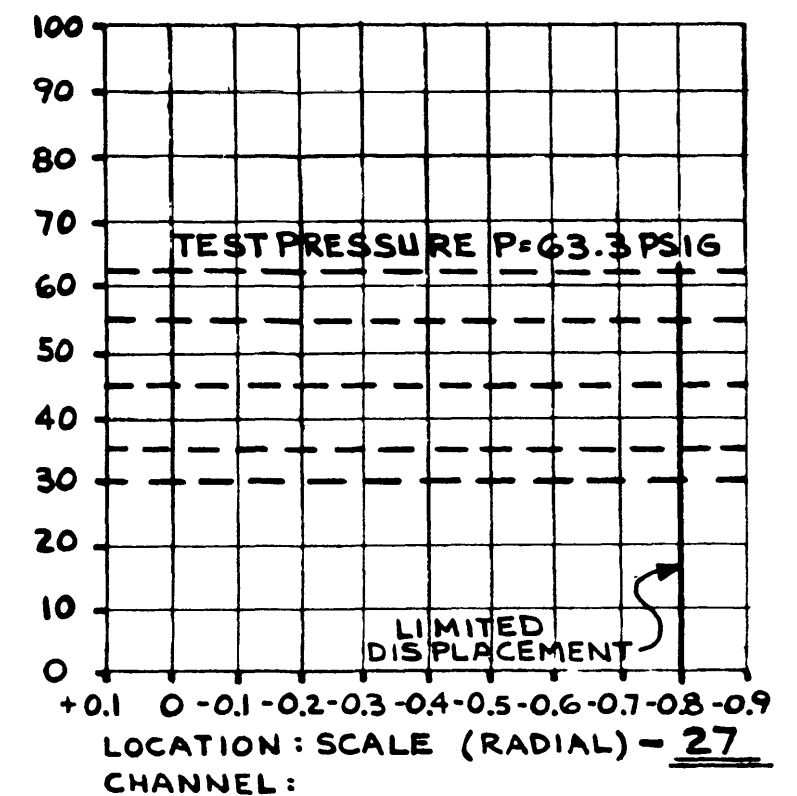
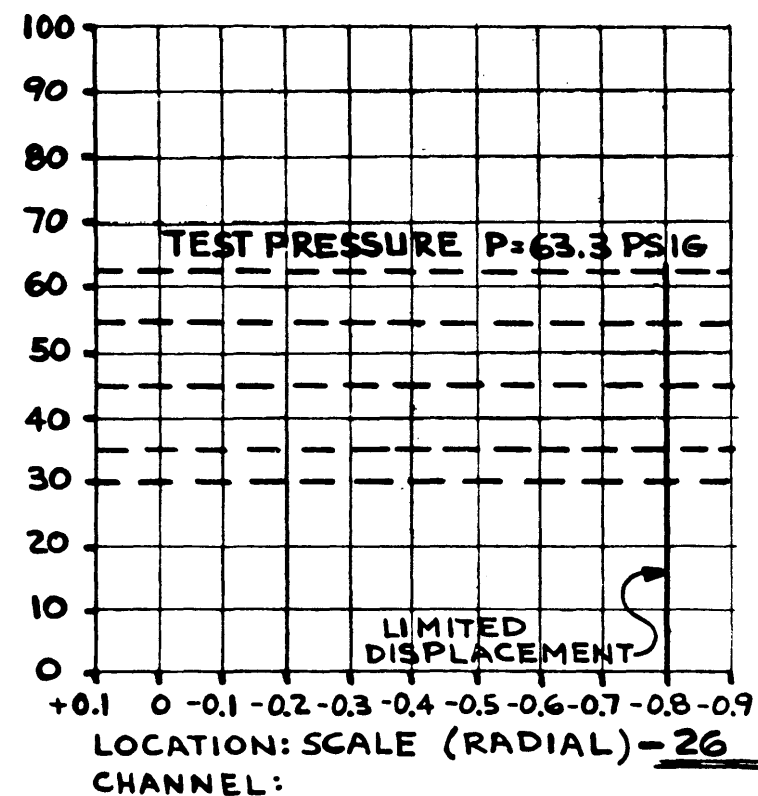
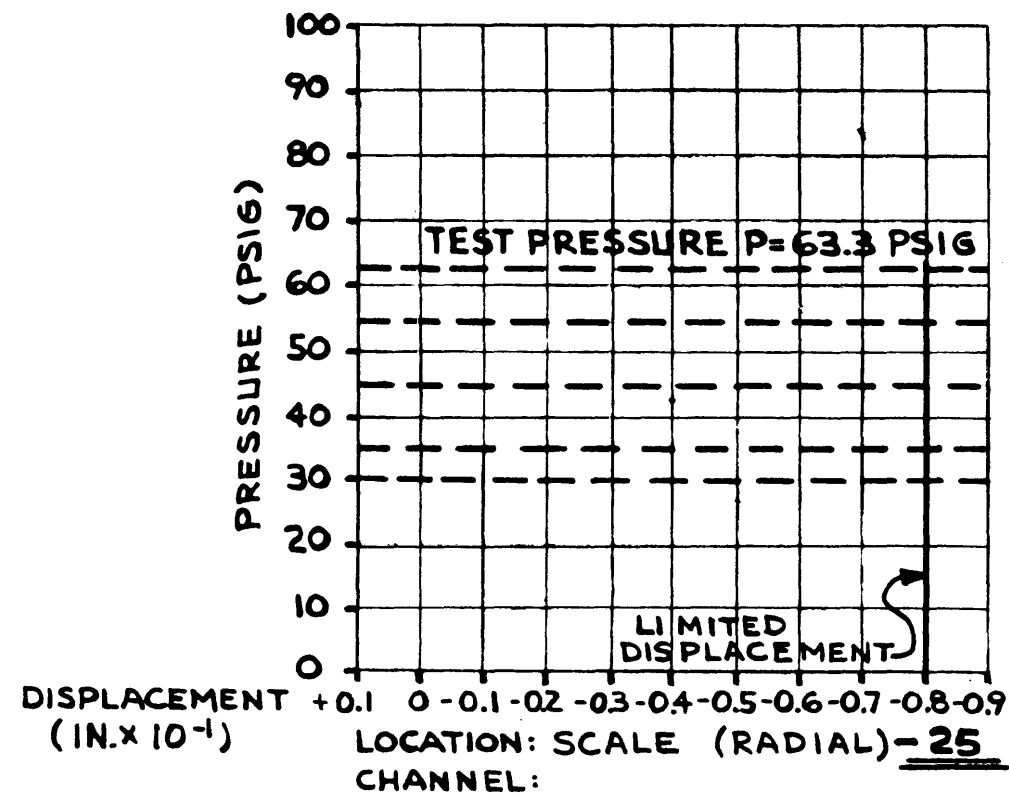
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Fig. 5E-12









GPU Nuclear

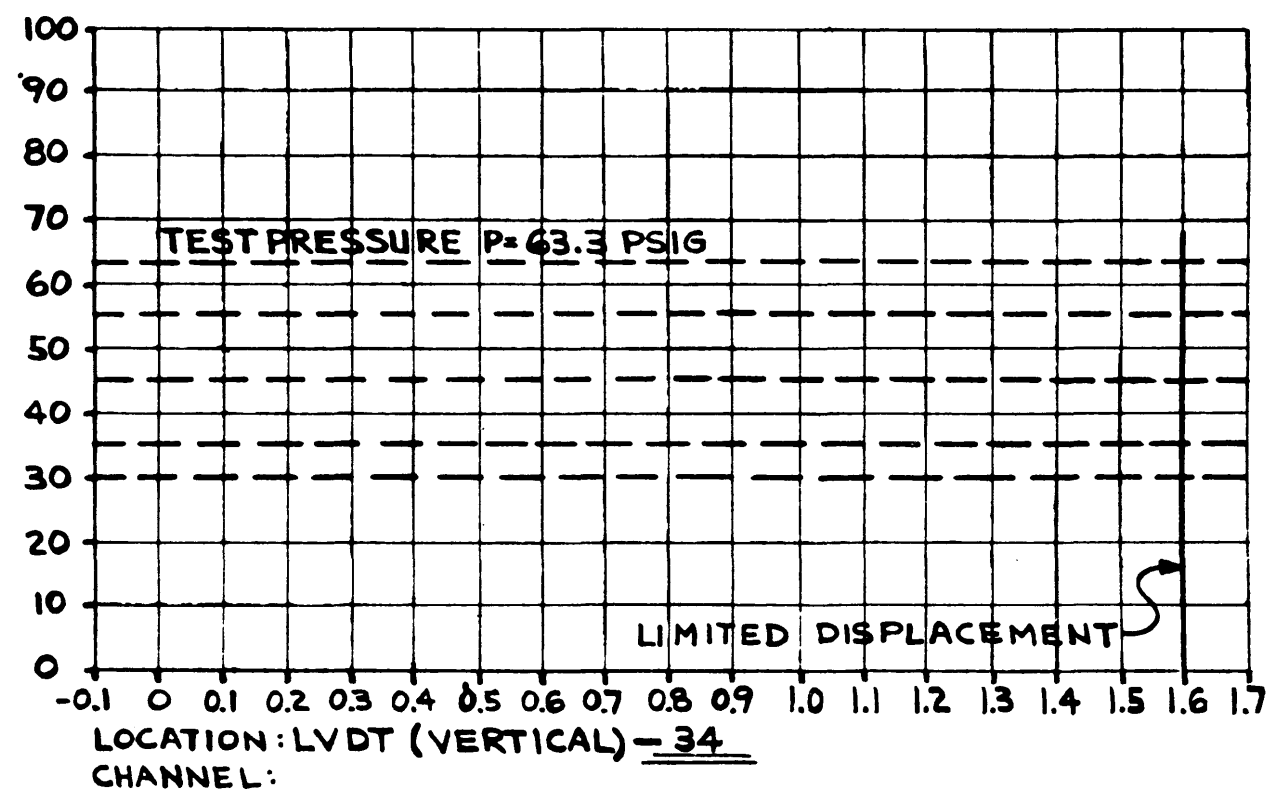
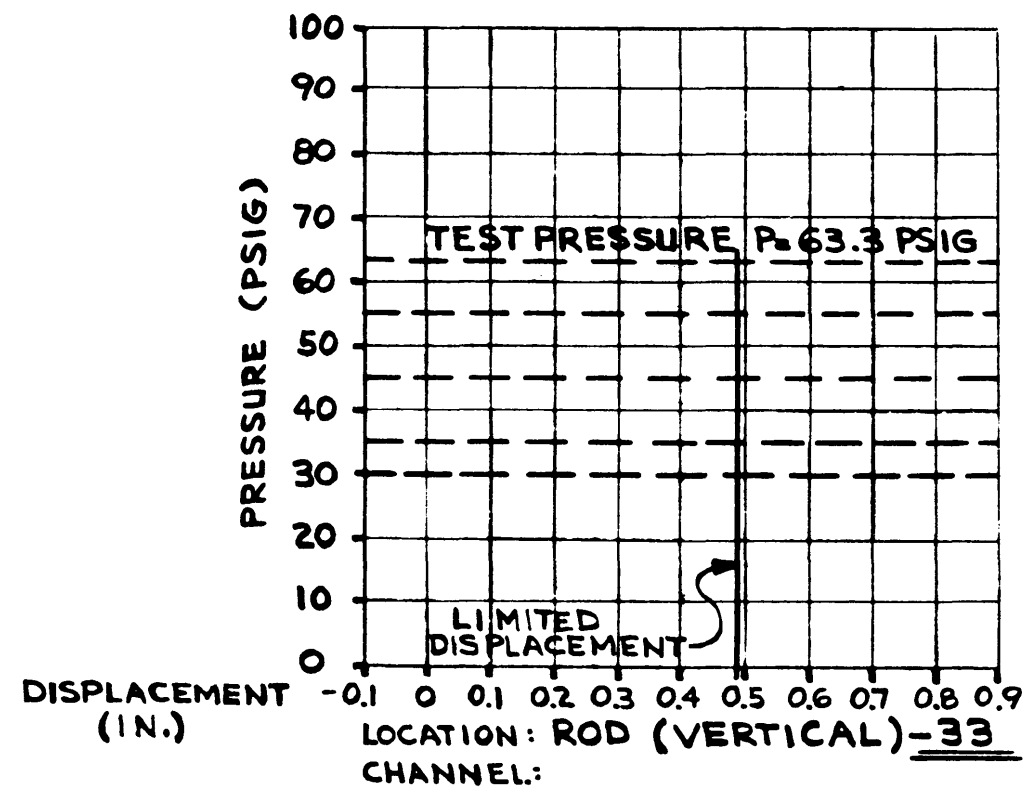
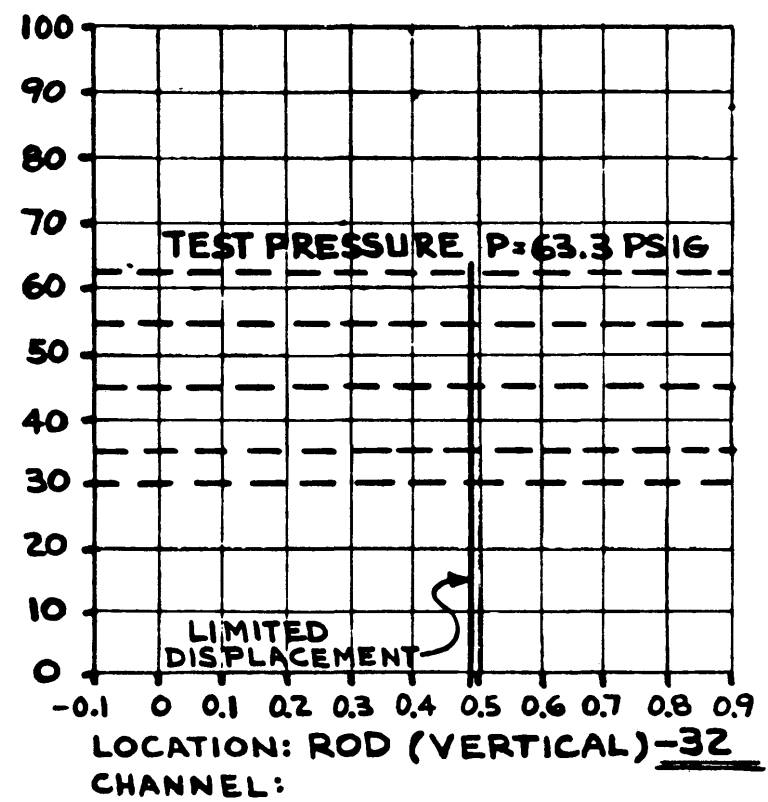
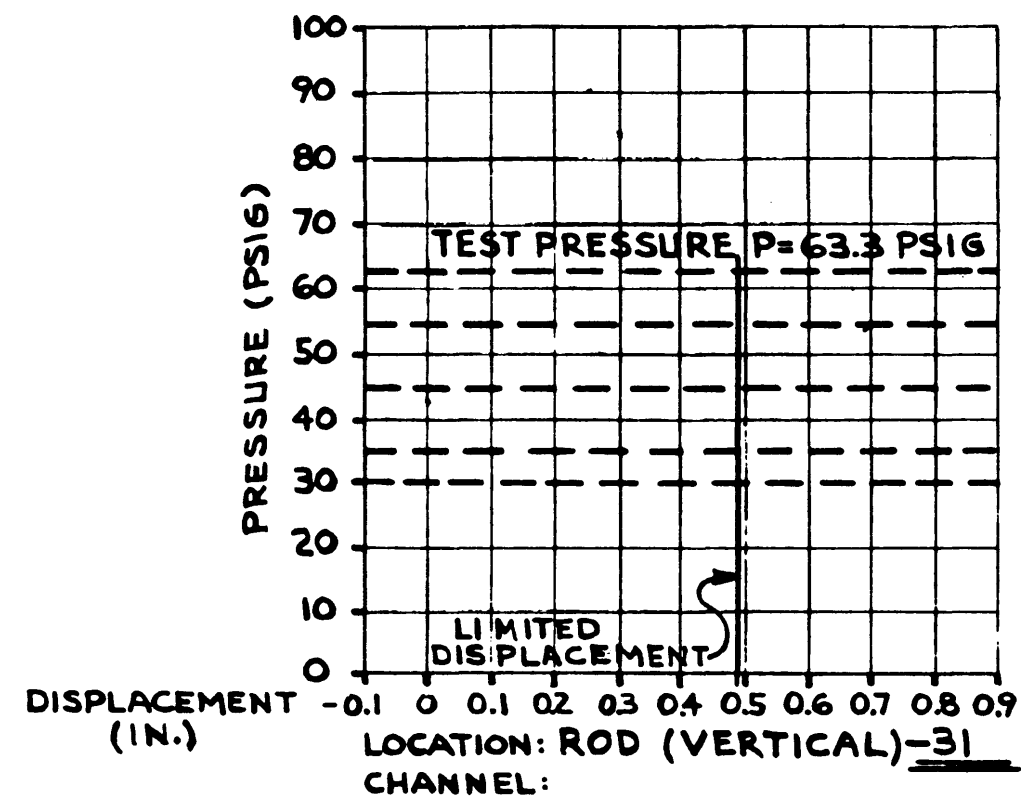
Update - 1

TMI Unit-1

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Dome Radial Displacement and Cylinder
Ledge Vertical Displacement

Fig. 5E-16



GPU Nuclear

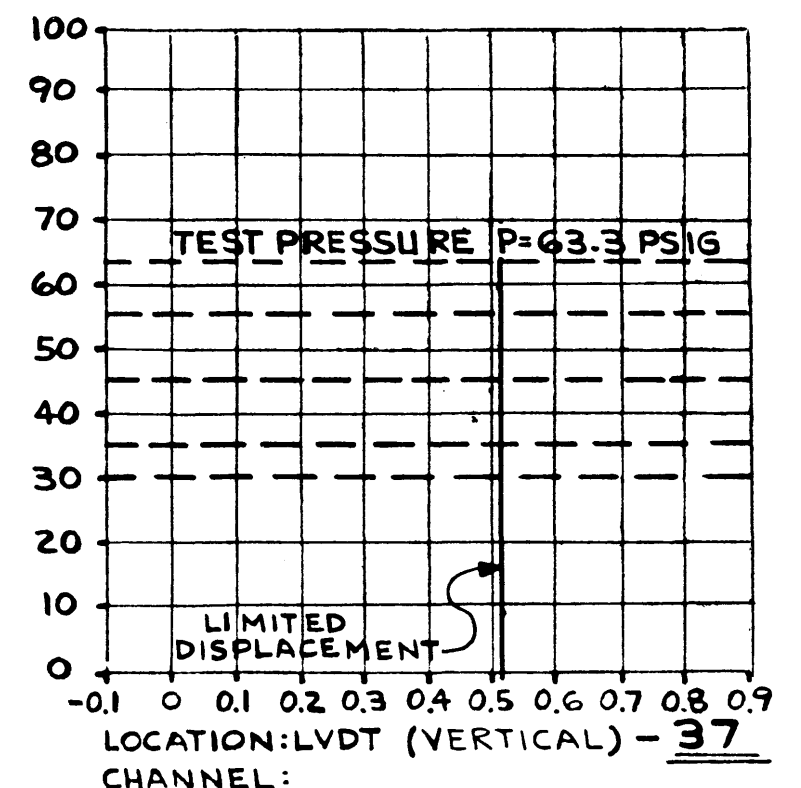
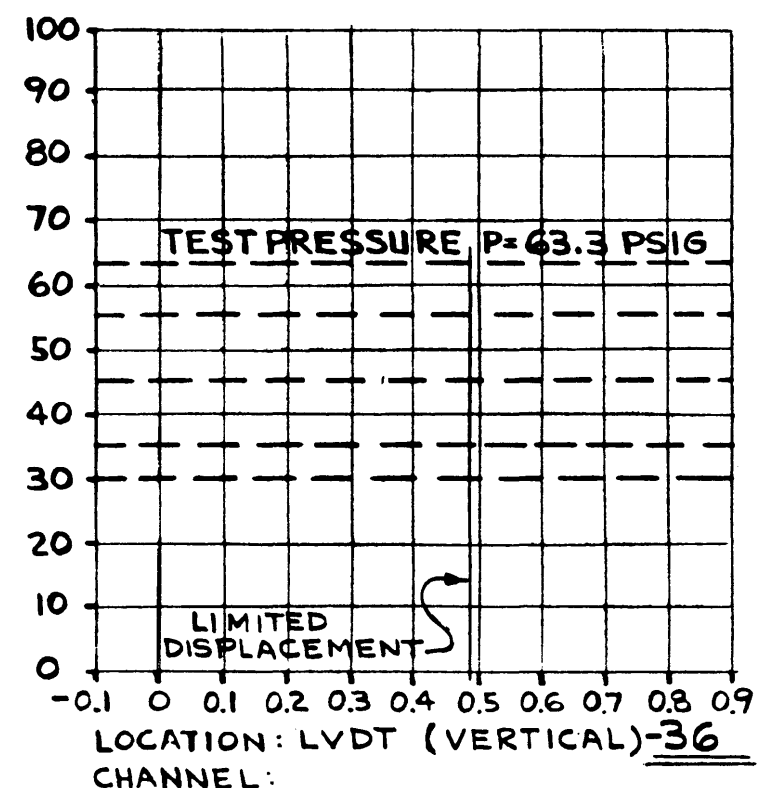
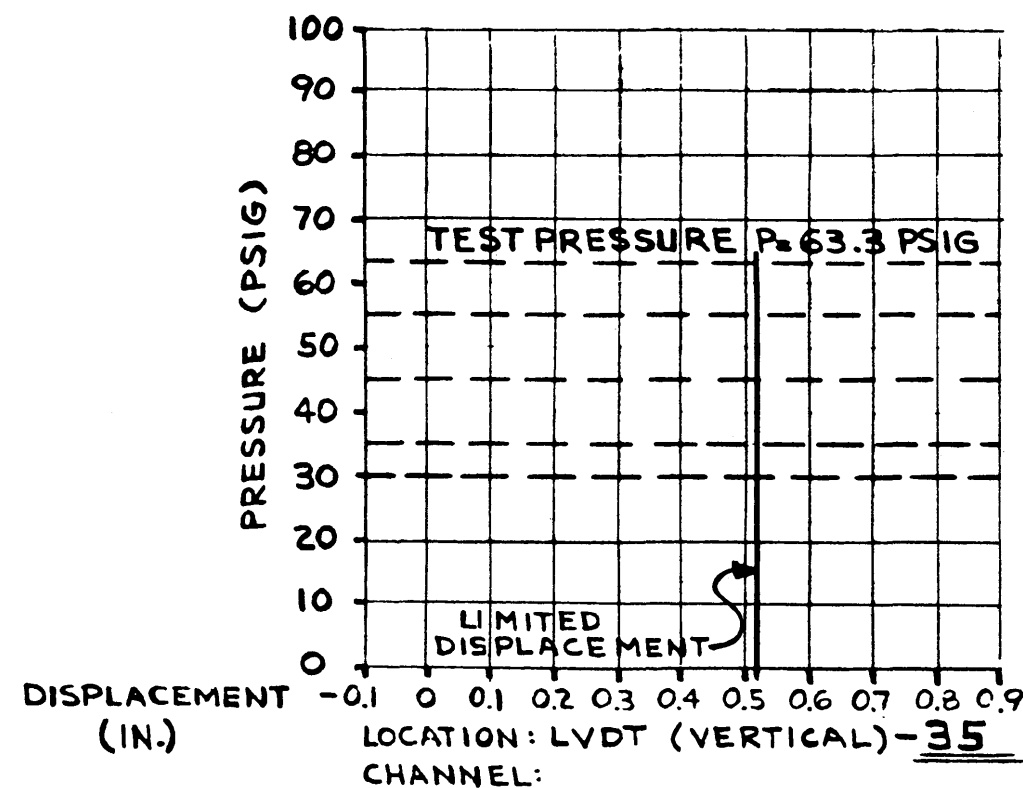
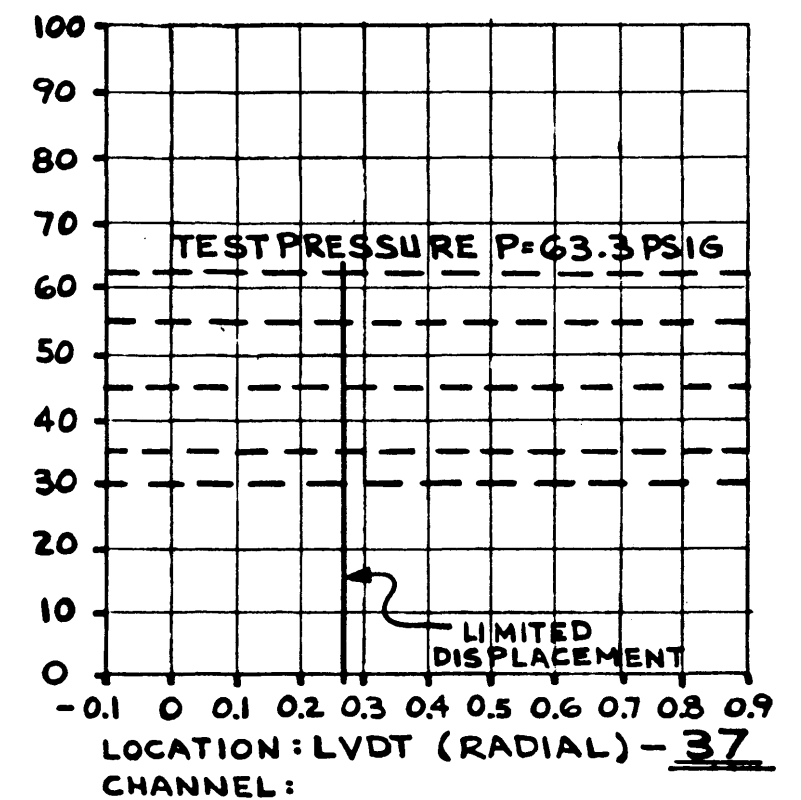
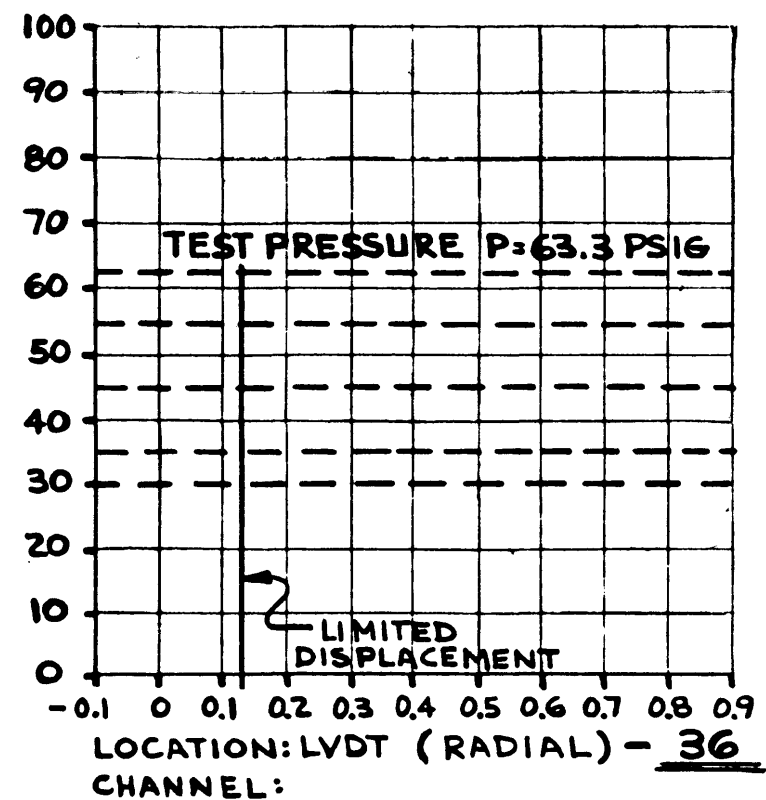
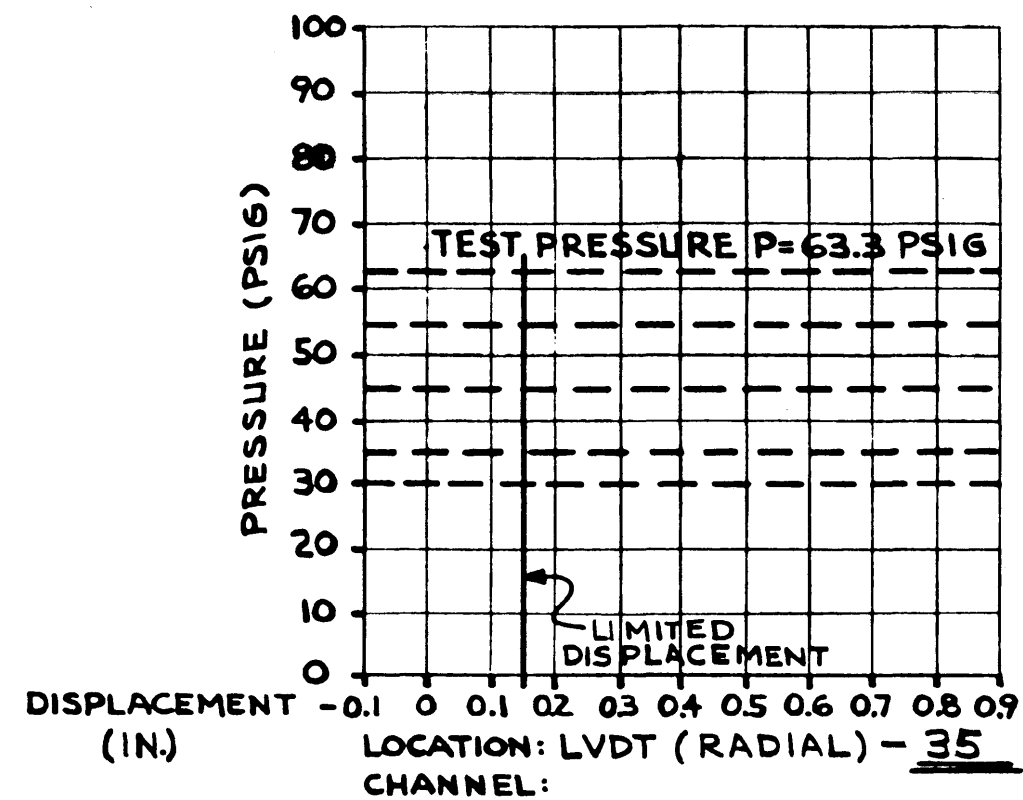
TMI Unit-1

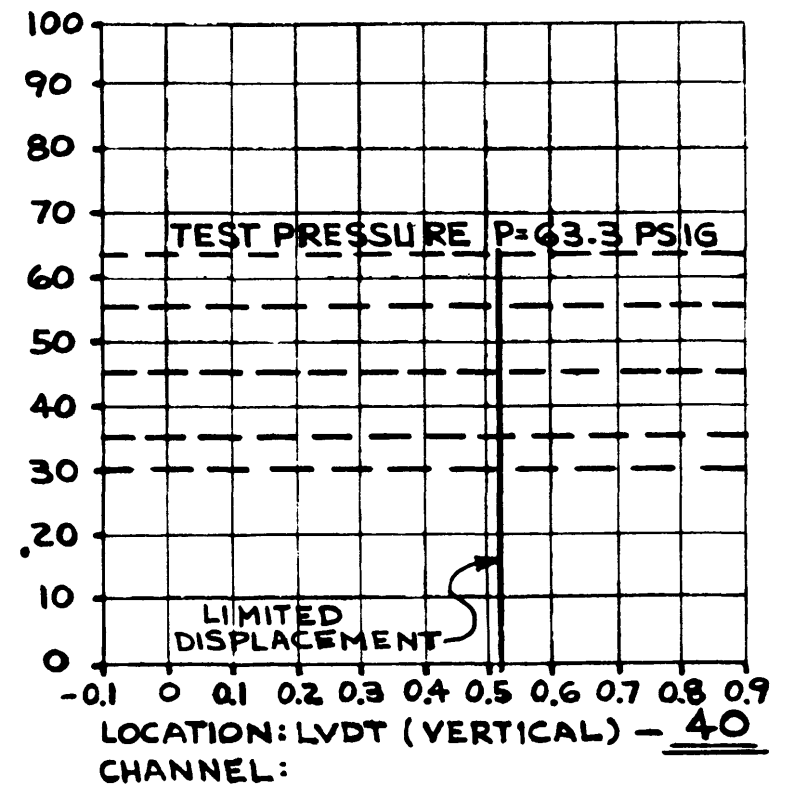
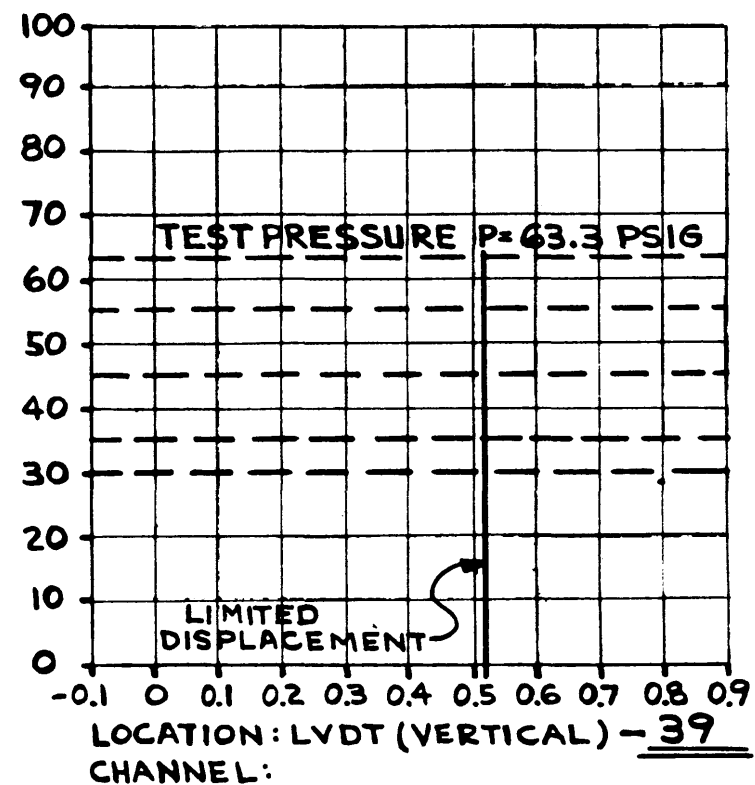
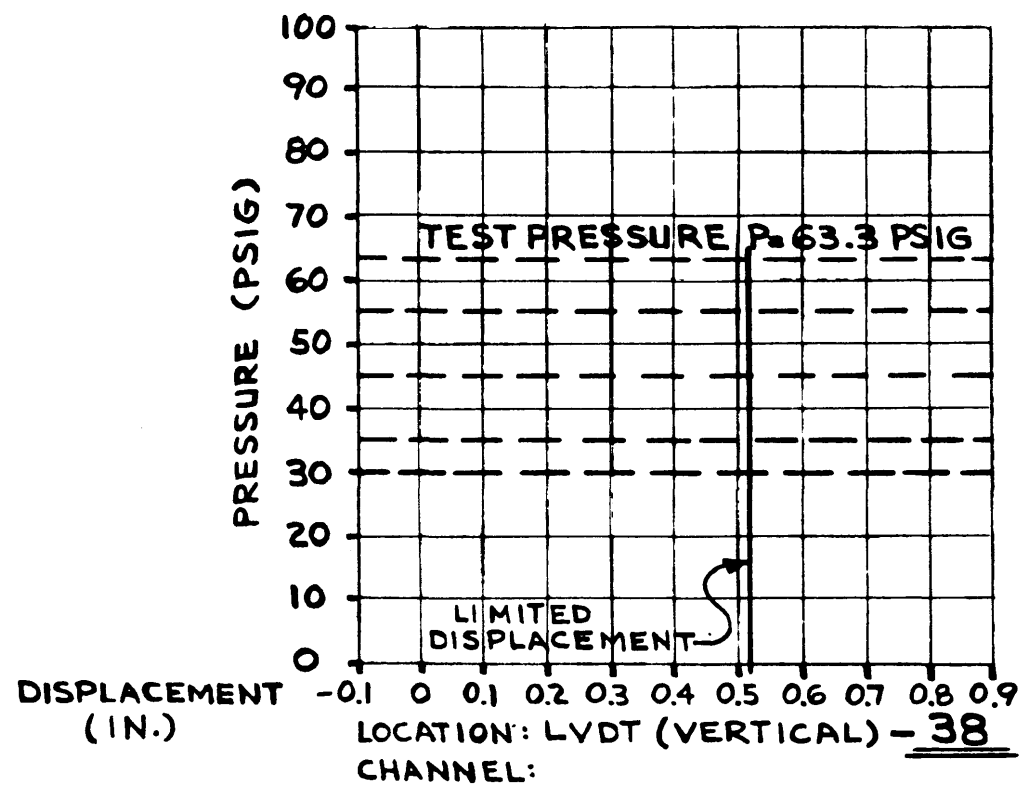
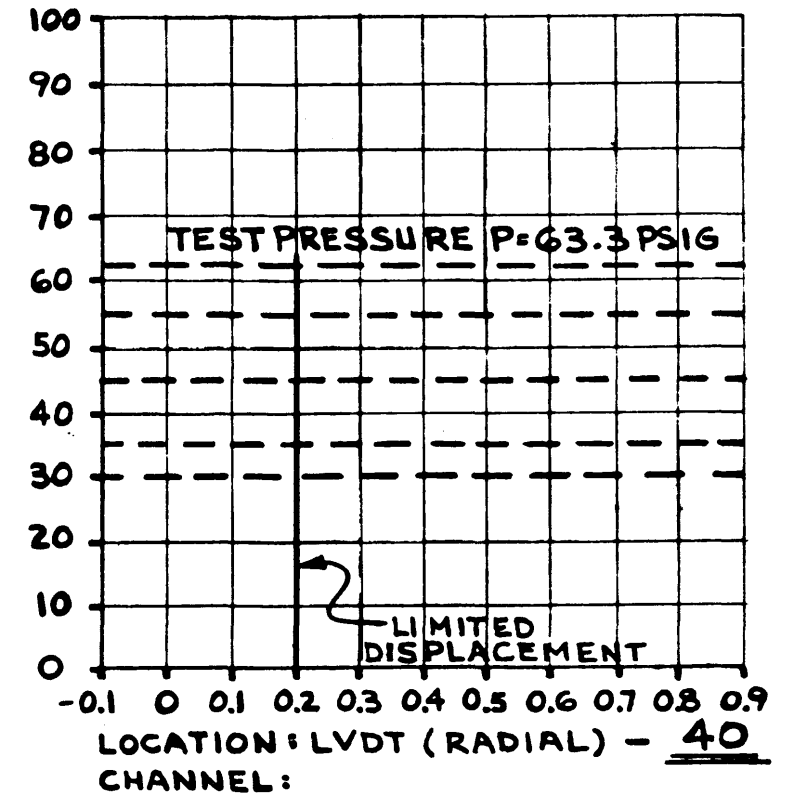
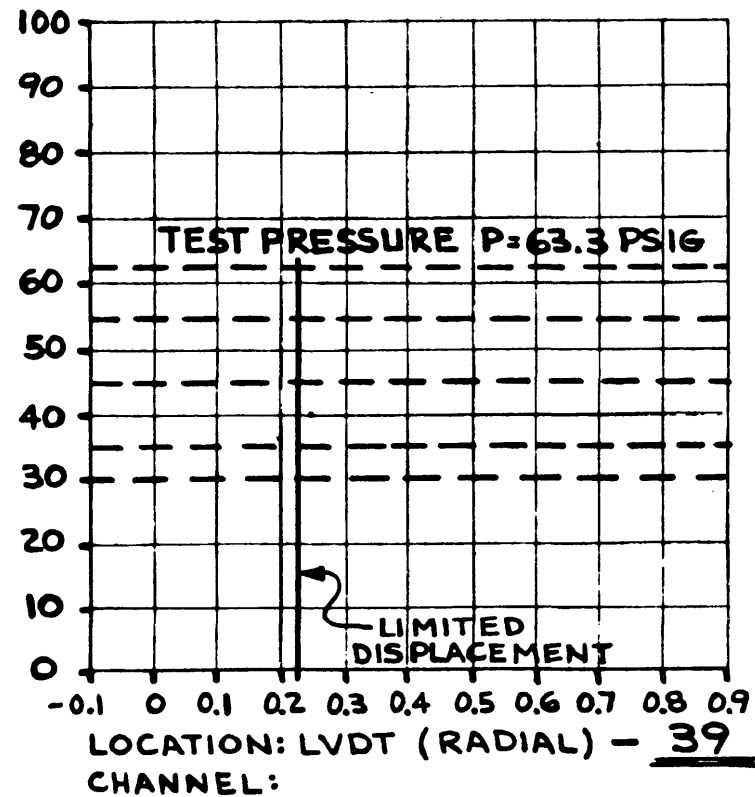
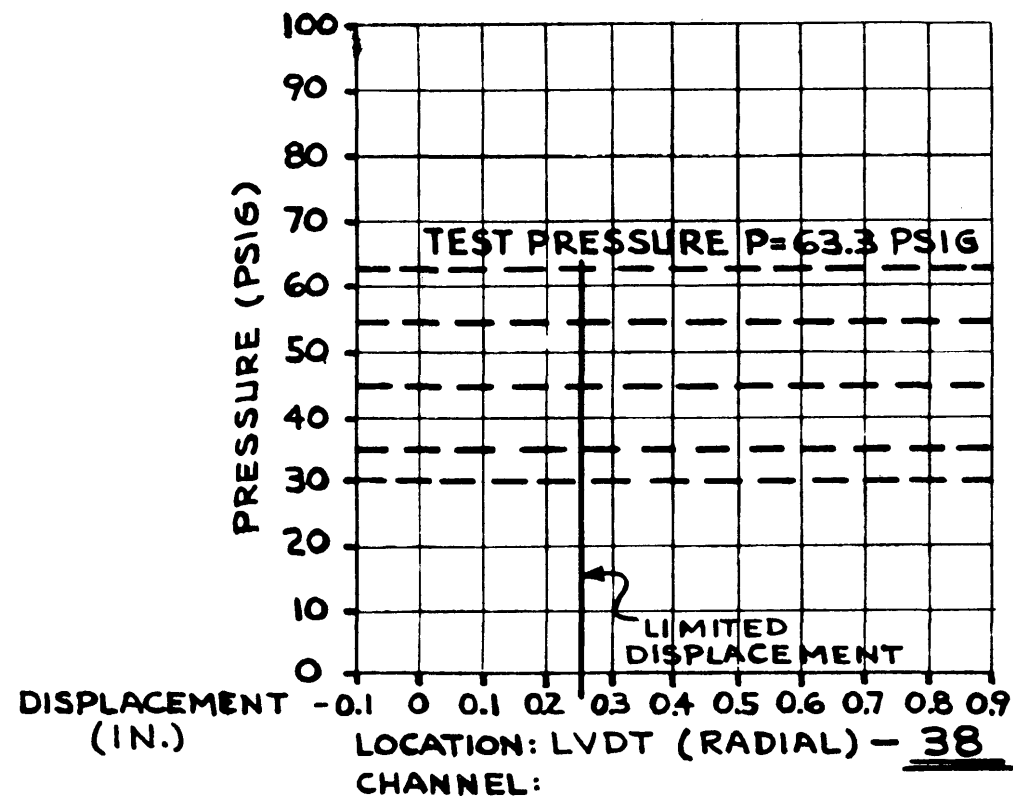
Base and Dome Apex
Vertical Displacement

Update - 1

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Fig. 5E-17



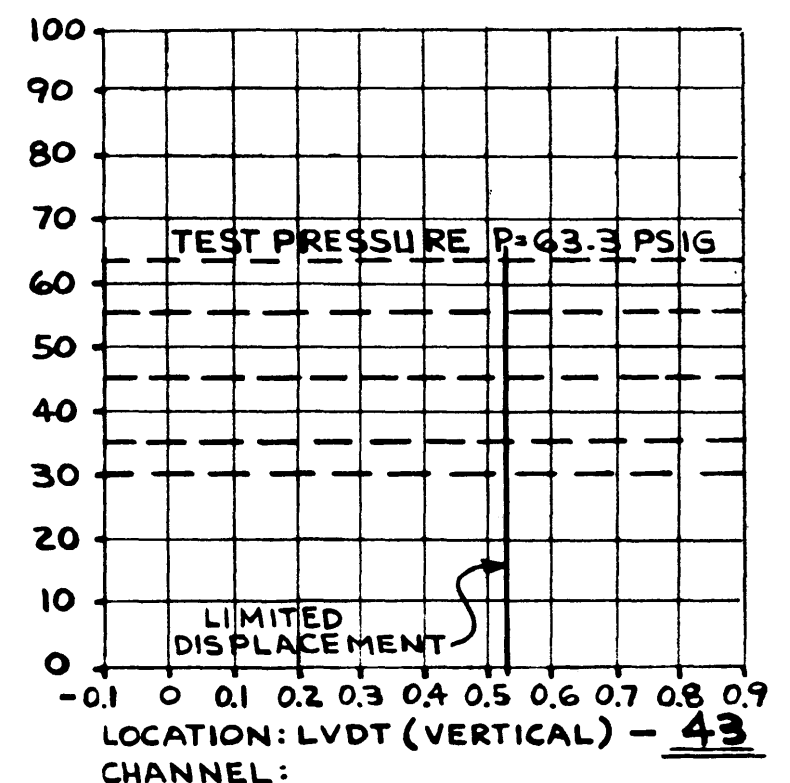
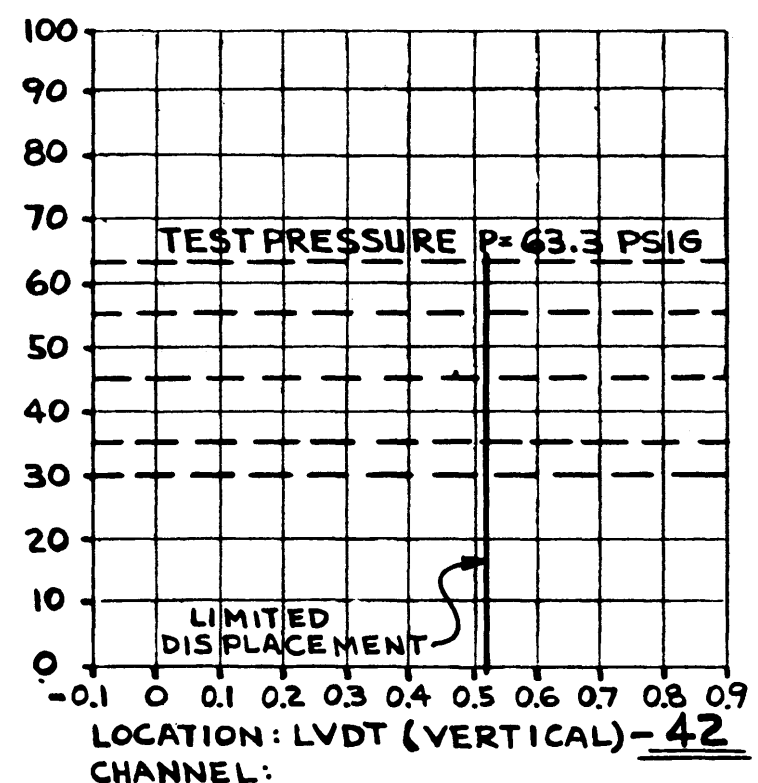
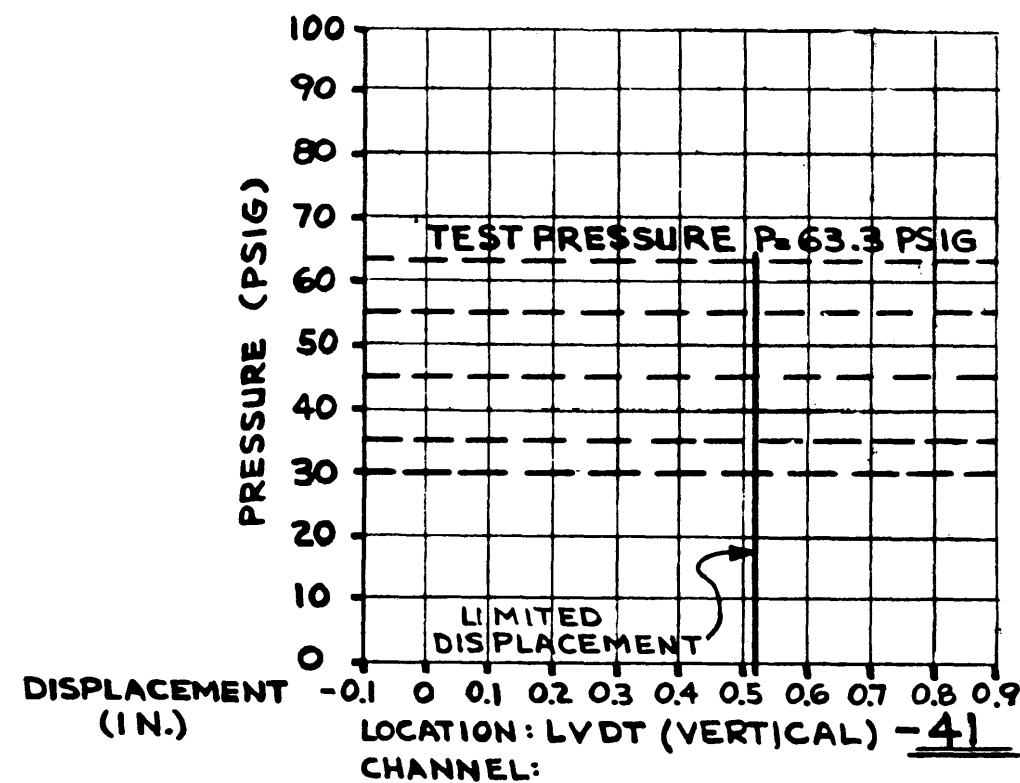
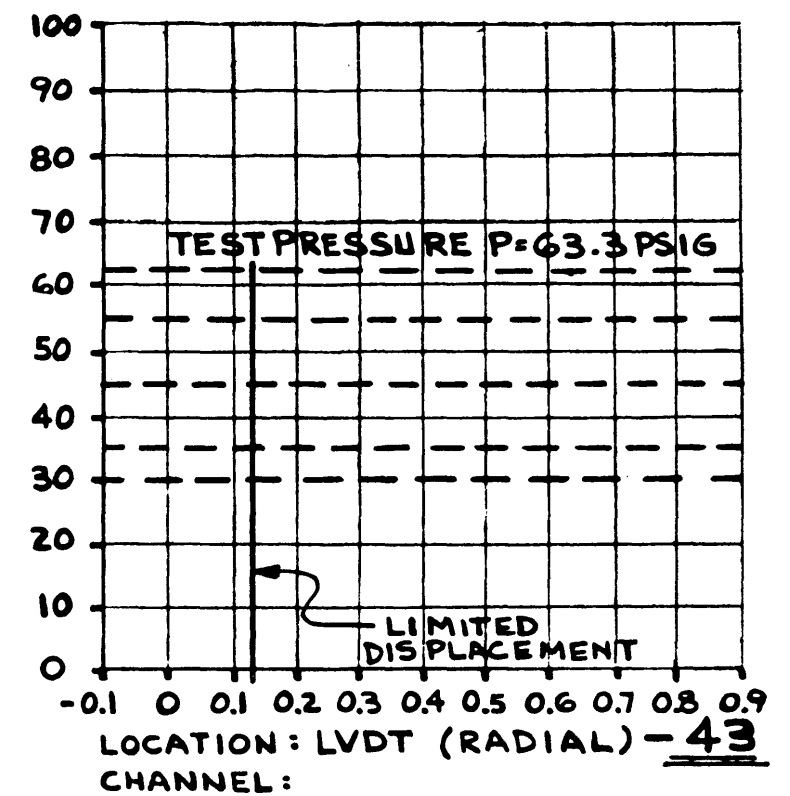
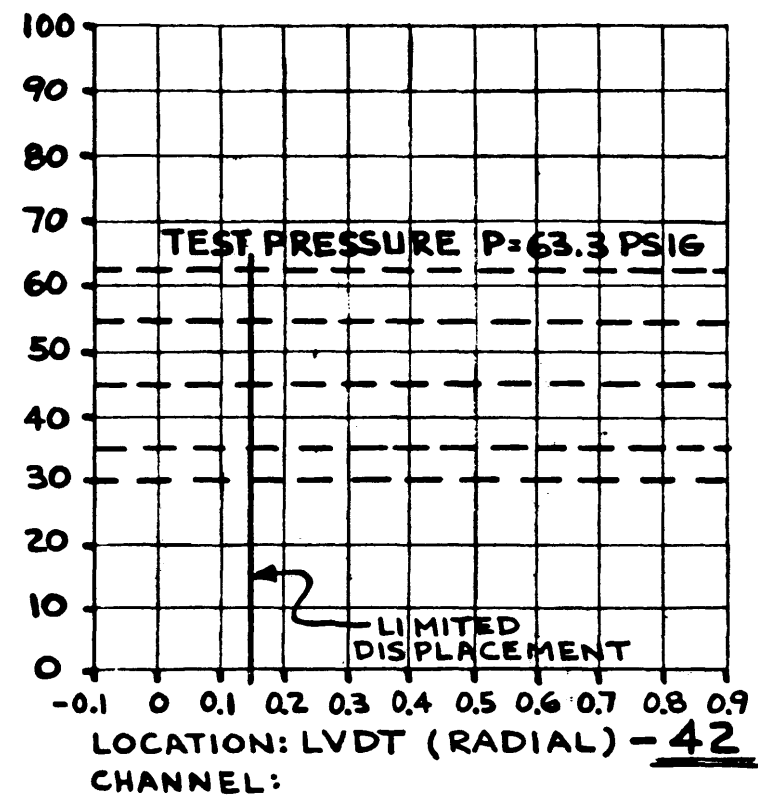
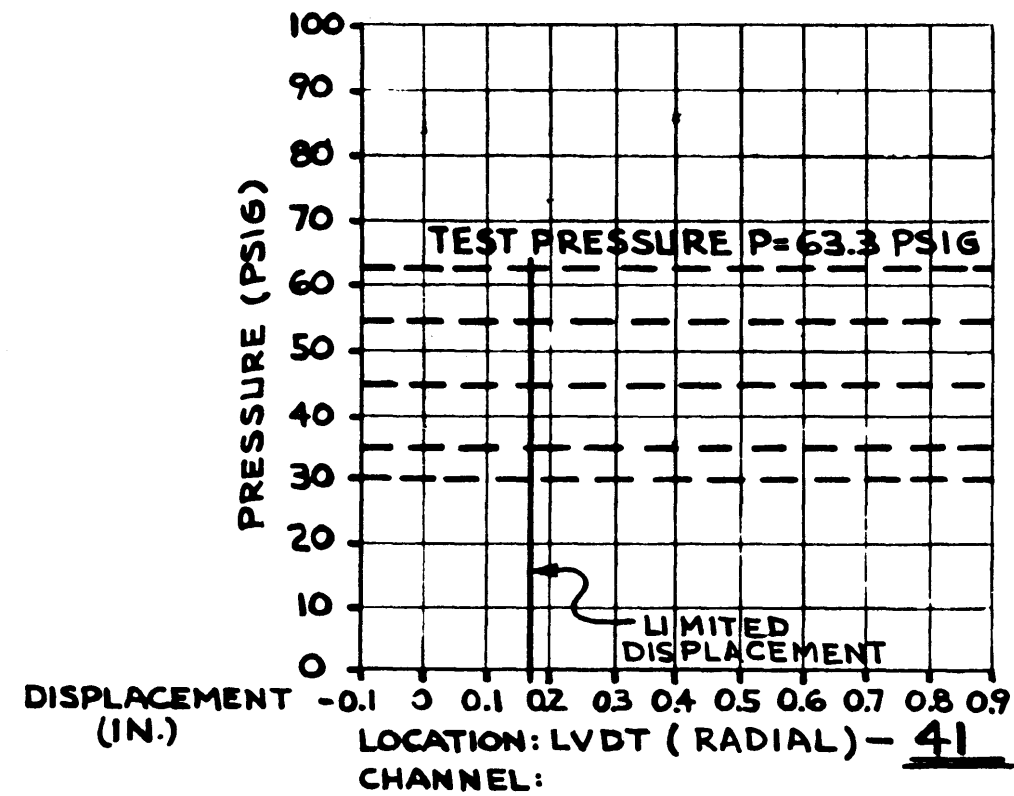


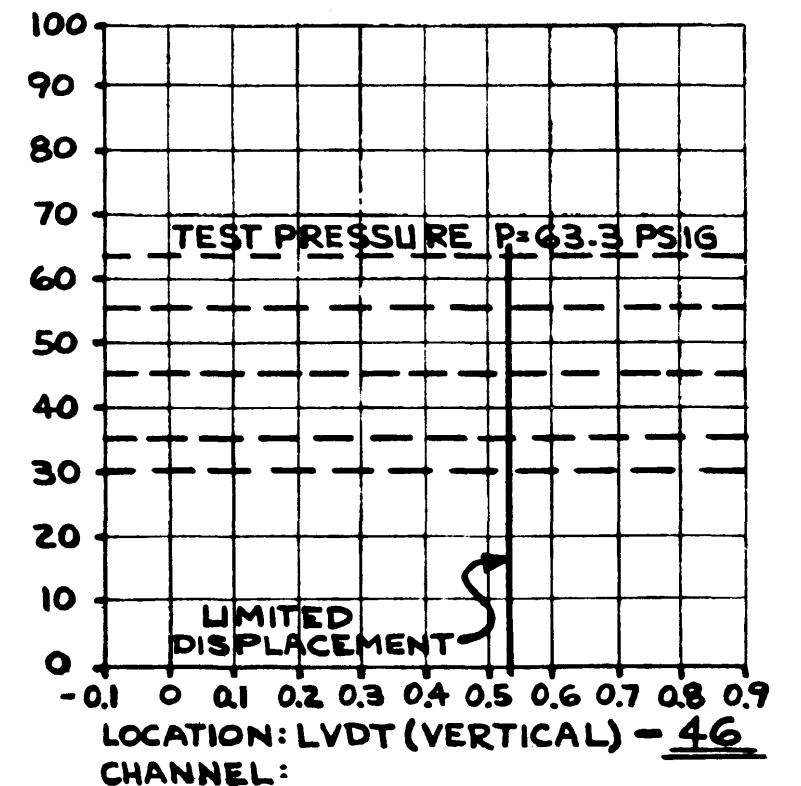
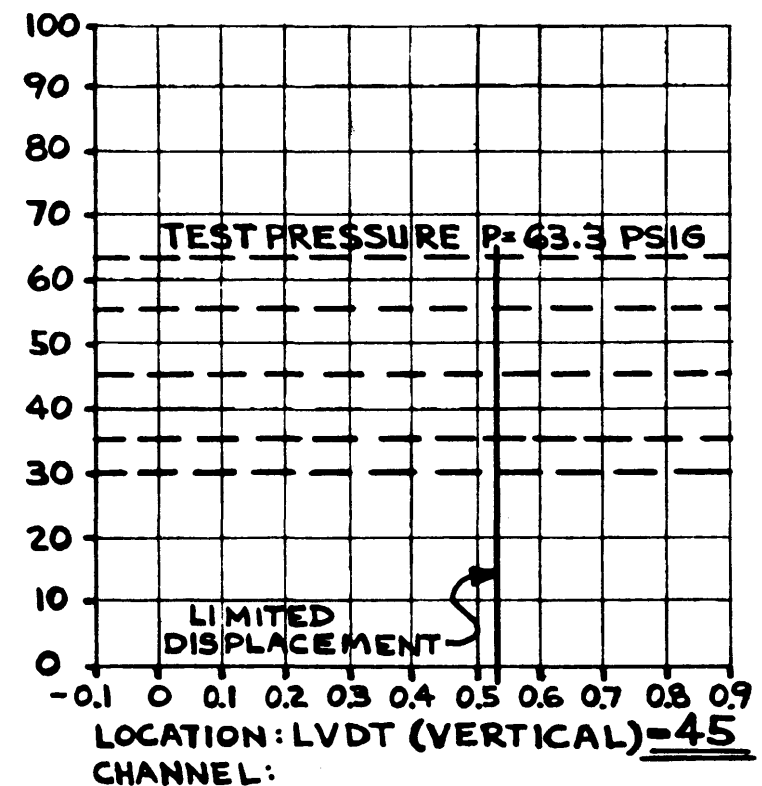
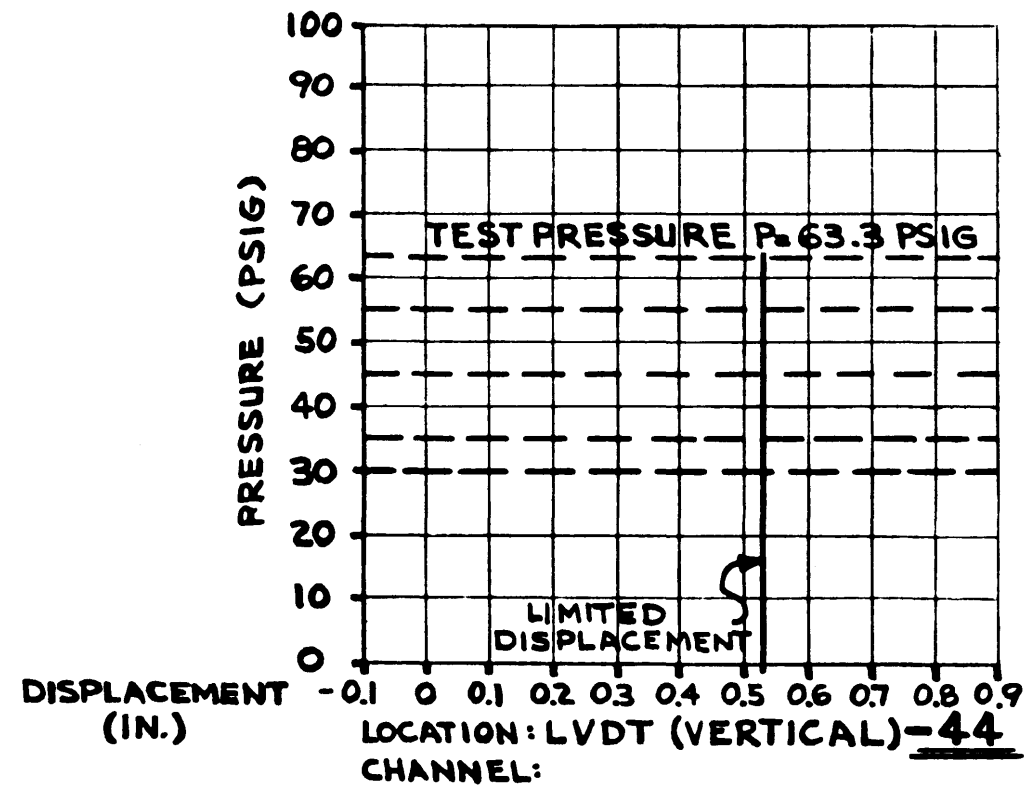
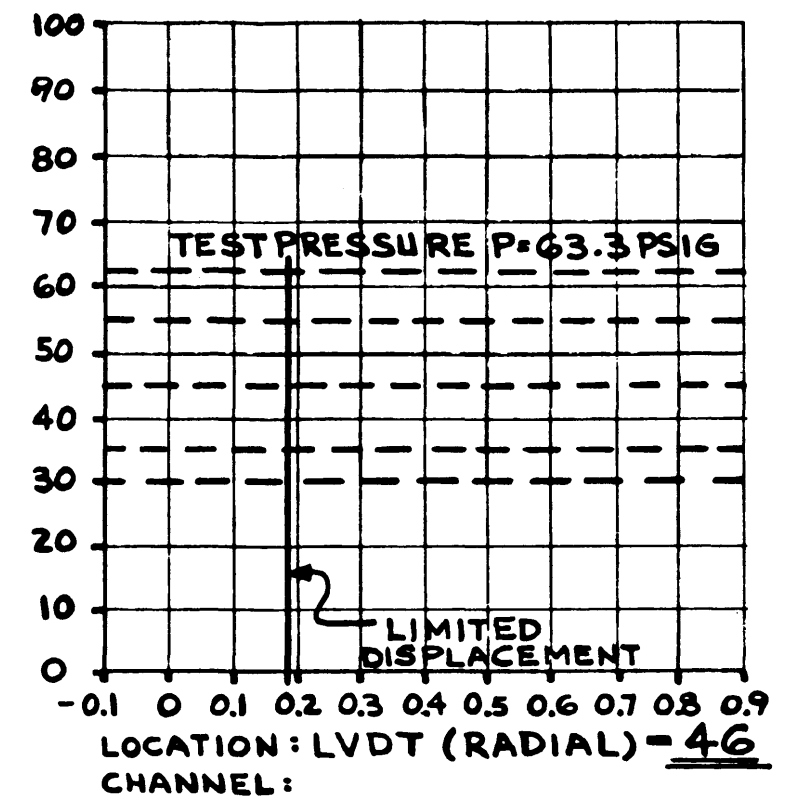
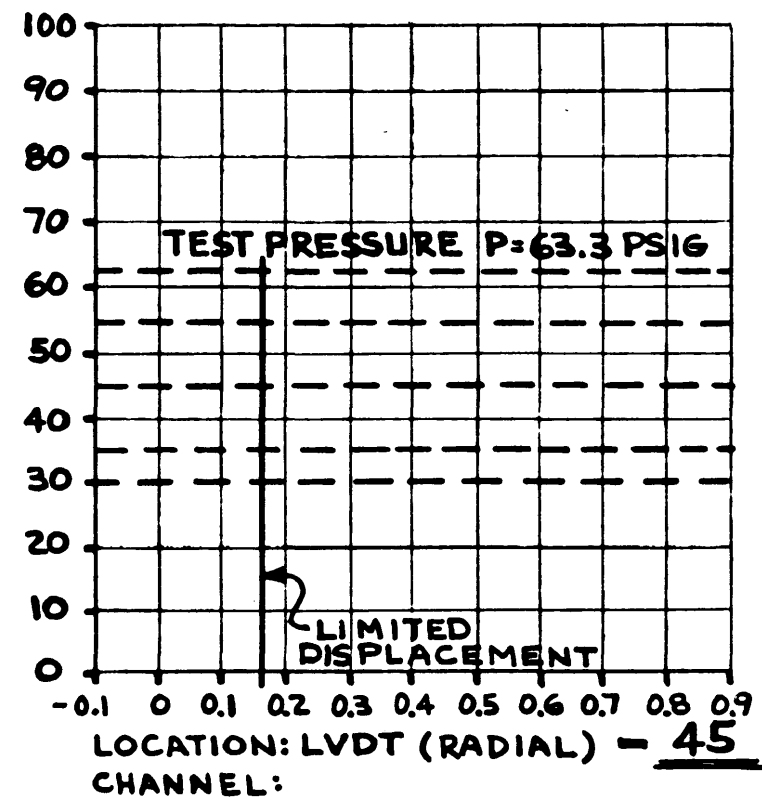
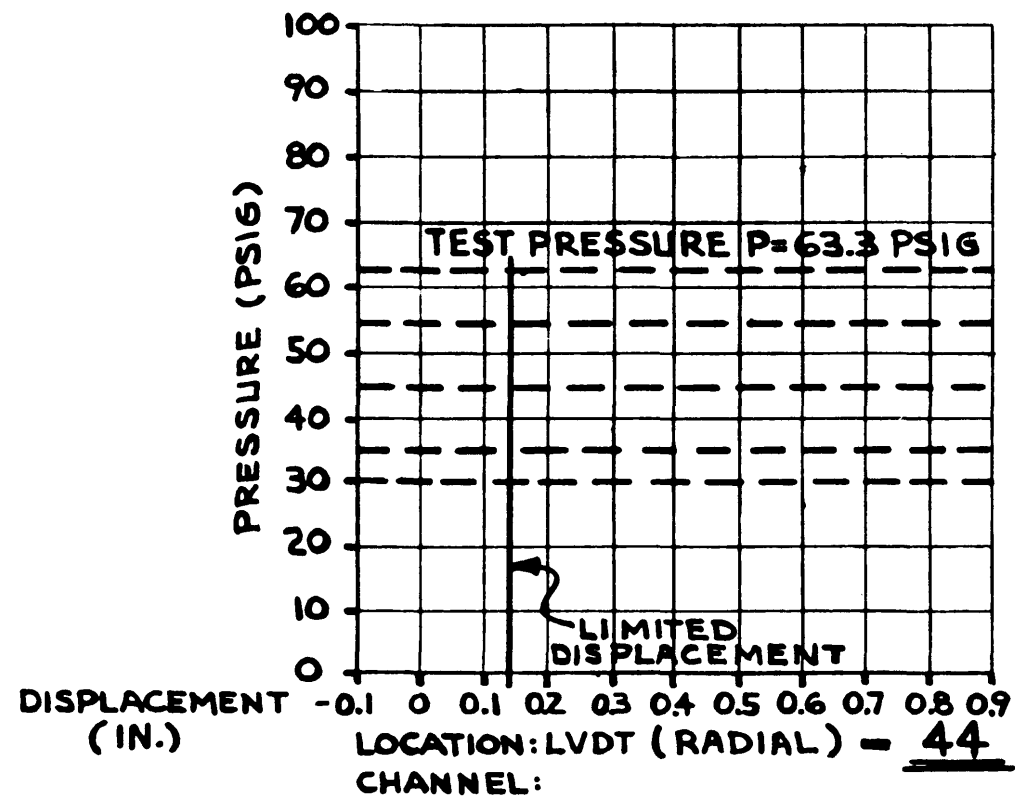
GPU Nuclear
TMI Unit-1

Update -1
7/82

Equipment Access Displacement

Fig. 5E-19





GPU Nuclear

TMI Unit-1

Equipment Access Displacement

Update -1

7/82

Fig. 5E-21

