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3-14-51

MAR 14 1951

Ref. Symbol: 1531 (91)  
Project No. ET-163

*Carmel Gully* <sup>U</sup> 12/14/98  
*WC Payne* 12/16/98

*RBCranner*  
995NO273  
11/4/98

MR. LEON DAVIDSON - W-1 GROUP, LASL

Re: Shake Tests of Split Cones

11/3/98

*W Payne*

11/4/98

*RBCranner*

TIG-NWT-1

*OK for Opened*

Object

The object of this test was to determine the durability of construction and assembly of two split cone assemblies: The union nut two piece cone, and the snap-on two piece cone.

Requested by

The test was requested by Leon Davidson, W-1 Group, LASL, in an Office Memorandum dated January 23, 1951, with Calvin W. Moon, W-1, as observer and consultant.

Summary of Results

Both cone assemblies withstood the specified vibration.

Specifications

The two split cone assemblies were vibrated in two mutually perpendicular planes (perpendicular to the longitudinal axis and parallel to the longitudinal axis) for 50 minutes in each plane from 10-55-10 cps in one minute at 0.045 inch total displacement giving 7 g acceleration at 55 cps.

Procedure

a. Test conditions

The test was conducted under ambient conditions.

b. equipment used

equipment utilized in the test included a Sonntag shake table and a General Radio strobotac.

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MR. LEON DAVIDSON - W-1 Group, LASL

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Results

The two split cone assemblies were mounted on the Sonntag shake table and vibrated along the axis parallel to the longitudinal axis of the cones for 50 minutes. There was no indication of mechanical failure.

The cones were then vibrated along the axis perpendicular to the longitudinal axis of the cone for 50 minutes. The union nut tended to loosen on its assembly, but, after being re-tightened, remained tight. There was no other indication of mechanical failure.

Conclusions and Recommendations

The two split cone assemblies withstood the requested test.

*F. L. King*  
Test conducted by F. L. KING - 1531  
Original Signed By  
R. L. WAGAR

Approved by R. L. WAGAR - 1531

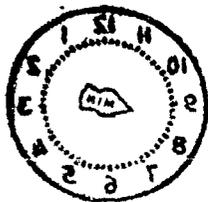
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