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HISTORIC AMERICAN ENGINEERING RECORD

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Jet Propulsion Laboratory Edwards Facility, HAER No. CA-163-EE  
Test Stand "G" (Building 4271/E-72)  
Edwards Air Force Base  
Boron Vicinity  
Kern County  
California

Photographers' Credits:

Credit PSR: Philipp S. Rittermann, Photography &  
Preservation Associates, Inc., September, 1995  
Credit WCT: Photographic copy of JPL photograph by  
William C. Tibbitts, date cited in caption

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**CA-163-EE-1** Credit PSR. This view displays the north and west facades of Test Stand "G" (Vibration Facility) as seen when looking east southeast (110°). Test Stand "G" no longer houses the vibrator; it now houses an autoclave due to the changing nature of the testing work. The Vibration Facility was Test Stand "G"'s historic function. Test Stand "E" is at the far right. The Vibration Facility subjected motor and engine assemblies to various vibration patterns in order to simulate flight conditions and evaluate the durability of engine and motor designs.

**CA-163-EE-2** Credit WCT. Original 2-1/4"x2-2/4" color negative is housed in the JPL Archives, Pasadena, California. This view depicts the interior of Test Stand "G" with its "Vibration System consisting of a MB-C210E Electrodynamc Exciter having a maximum sinusoidal force output of 28,000 lbs. and a no-load-peak acceleration sine wave of 80 gs." (Quotation based on JPL photo caption in notebook *The Jet Propulsion Laboratory Edwards Facility*, Jet Propulsion Laboratory, California Institute of Technology, no date; "80 gs" means 80 times the force of gravity.) This machine could be controlled to deliver a wide variety of perturbations (JPL negative no. 344-3802B, 27 February 1981).

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- CA-163-EE-3** Credit WCT. Original 4"x5" black and white negative is housed in the JPL Archives, Pasadena, California. This view of the vibrator shows a large mounted ATS (Advanced Technology Satellite) motor. Accelerometer instrumentation has been added. JPL caption reads "C-210E Vibration Exciter ATS Accelerometer Installation on Q4TX AXIS" (JPL negative no. 384-5848B, 31 March 1966).
- CA-163-EE-4** This photographic copy of an engineering drawing shows the plan and details for Test Stand "G" and the placement of the vibrator. California Institute of Technology, Jet Propulsion Laboratory, Plant Engineering: **"Vibration Test Facility-Bldg E-72, Floor & Roof Plans, Sections, Details & Door Schedule,"** drawing no. E72/2-5, 21 May 1964. California Institute of Technology, Jet Propulsion Laboratory, Plant Engineering: engineering drawings of structures at JPL Edwards Facility. Drawings on file at JPL Plant Engineering, Pasadena, California.