Rocket Engine Test Facility

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Rocket Engine Test Facility
In a series of tweets on Saturday, SpaceX CEO Elon Musk announced the company is building a second rocket engine factory near its existing facility in Central Texas with the hope of one day powering a ...

Elon Musk says SpaceX planning second rocket facility near Waco
McGregor will soon get a second SpaceX plant, this one geared to make 800 to 1,000 rocket engines per year to help the company reach its interplanetary ambitions, CEO Elon ...

SpaceX CEO: Second McGregor factory will make 100s of rocket engines per year
The new McGregor facility will produce roughly 800 to 1,000 rocket engines per year ... soon on a second Raptor factory at SpaceX Texas test site. This will focus on volume production of Raptor ...

Elon Musk says SpaceX ' s next Texas venture will be a rocket engine factory near Waco
In a major milestone, the Indian Space Research Organisation (ISRO) completed the final testing of one of the three stages of the launch vehicle that will carry humans to space under the Gaganyaan mis ...

ISRO successfully tests engine for its manned Gaganyaan mission
McGregor leaders are ' over the moon ' after learning the city will officially be home to another SpaceX facility.

McGregor: SpaceX ' cemented ' in Central Texas with rocket facility announcement, mayor says
A new gold standard national rocket test facility was unveiled last month. The centre will allow UK companies and academics to test state-of-the-art ...

Boost for UK Space Sector as New Facility Offers Greener Rocket Testing
"With this first test, Stennis not only demonstrates its versatility and status as the nation's premiere rocket engine test facility, it also opens an exciting new chapter in the nation's space ...

NASA TEST FIRES NEW ROCKET ENGINE FOR COMMERCIAL SPACE VEHICLE
A UK rocket test facility has been unveiled by the Science Minister ... development and building of the facility. For engine testing, the engines will be fired up in a vacuum, with a mechanical pump ...

The National Space Propulsion Test Facility is rocket testing
UK Rocket Test Facility UK Space Agency NSPTF rocket engine space load press release click

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UK ' s First Rocket Test Facility Unveiled, a $5 Million Cutting-Edge Space Lab
ESA oversaw the design, assembly and commissioning of the facility – equipped to test-fire the most powerful classes of rocket engines used aboard spacecraft. ESA ' s General Support Technology ...

ESA-led space propulsion test facility passed to UK owner
NASA has finally fully assembled the United Launch Alliance ' s (ULA) Atlas V rocket. The newly assembled Atlas V rocket will be next used for ...

Atlas V rocket is fully assembled ahead of Boeing ' s Orbital Flight Test-2; Destination ISS
Cianciola has shifted his workplace from Marshall in Huntsville, Alabama, to the Michoud Assembly Facility, the Louisiana complex 15 miles northeast of downtown New Orleans where the enormous pieces ...

A Critical Test for NASA ' s Monster Rocket
NASA ' s plans for a lunar mission this year remain on track after it said a deep-space rocket ... test of the Space Launch System engines at a National Aeronautics and Space Administration ...

Boeing moon rocket passes NASA test: WSJ
Those tests have all been relatively low-speed test " hops, " which involve ... Starship spacecraft is expected to contain six rocket engines, while the Super Heavy booster could have nearly ...

SpaceX likely to miss July date for Mars rocket test
The SpaceX Rocket Development Facility is currently ... at SpaceX Texas test site, " Musk said in a tweet, " It will be the highest output & most advanced rocket engine factory in the world. " ...

This document was generated for the NASA Glenn Research Center, in accordance with a Memorandum of Agreement among the Federal Aviation Administration, National Aeronautics and Space Administration (NASA), The Ohio State Historic Preservation Officer, and the Advisory Council on Historic Preservation. The City of Cleveland's goal to expand the Cleveland Hopkins International Airport required the NASA Glenn Research Center's Rocket Engine Test Facility, located adjacent to the airport, to be removed before this expansion could be realized. To mitigate the removal of this registered National Historic Landmark, the National Park Service stipulated that the Rocket Engine Test Facility be documented to Level I standards of the Historic American Engineering Record (HAER). This history project was initiated to fulfill and supplement that requirement.

Nuclear Thermal Propulsion (NTP) has been identified as a critical technology in support of the NASA Space Exploration Initiative (SEI). In order to safely develop a reliable, reusable, long-lived flight engine, facilities are required that will support ground tests to qualify the

nuclear rocket engine design. Initial nuclear fuel element testing will need to be performed in a facility that supports a realistic thermal and neutronic environment in which the fuel elements will operate at a fraction of the power of a flight weight reactor/engine. Ground testing of nuclear rocket engines is not new. New restrictions mandated by the National Environmental Protection Act of 1970, however, now require major changes to be made in the manner in which reactor engines are now tested. These new restrictions now preclude the types of nuclear rocket engine tests that were performed in the past from being done today. A major attribute of a safely operating ground test facility is its ability to prevent fission products from being released in appreciable amounts to the environment. Details of the intricacies and complications involved with the design of a fuel element ground test facility are presented in this report with a strong emphasis on safety and economy.

In support of plans to add a second control room to the Rocket Engine Test Facility at NASA, Cleveland, OH, the existing control room was analyzed to determine the most severe accidental explosion it could safely withstand. This potential accident was used as the design threat to develop a preliminary design for the new control room. The analysis and design calculations were based on procedures from Army TM 5-1300/NAVFAC P-397/AFM 88-22 and the computer program CBARCS, which automates some of the procedures in the manual. To evaluate the degree of conservatism in the analysis, experimental data with charge weights and structural dimensions similar to the control room's were selected and analyzed. Results indicate that the existing room will safely withstand an explosion equivalent to 1,000 lb of TNT detonated at the rocket test stand 20 ft away. To survive the same accident, the new control room (to be constructed on top of the old one) should have 1-ft thick walls existing walls are 2 ft thick with 0.33% reinforcement (existing walls have 1.55%). Comparison of data with analysis indicates that an accidental explosion equivalent to approx. 1,800 lb of TNT will cause unacceptable damage to the control room. This analysis results in a much more economical design for the new control room than would be achieved by constructing a new room identical to the old control room.