

Propulsion Systems Lab 1&2 Demolition Justification

This Project at the Glenn Research Center is proposed for demolishing the Propulsion Systems Laboratory (PSL) Altitude Chambers (Test Cell Nos. 1 & 2), Building No. 65, No. 66, and minor ancillary buildings. Included in the work scope will be the demolition of the buildings, the test chambers, cooler structures, all related piping and components, pipe supports, miscellaneous above-grade utilities, and foundations down to a minimum of five feet below grade. The primary Altitude Exhaust piping is presently terminated at the existing Altitude Exhaust header northwest of Building No. 64; the bulkhead will be evaluated to determine if further isolation at the secondary cooler is required. All other utilities will be terminated at the most practical point beyond the general demolition site boundary.

Specific structures to demolish include:

No. 65 PSL Altitude Chambers Cells No. 1 and No. 2

No. 66 PSL Access Building

No. 67 PSL Primary Coolers (2 units)

No. 73 Service Support Building

No. 96 PSL Fuel Storage Building

No. 97 PSL Oxidant Storage Building

NASA Headquarters has concurred with and advocated the proposed demolition of PSL No. 1 and No. 2 Test Cell sites. The facility, as currently configured, has been out of service for more than 15 years. Research once done in this facility is now handled in PSL No. 3 and No. 4 Test Cells in Building No. 125. There is no projected research need in the future for PSL No. 1 and No. 2. The project is consistent with the GRC Master Plan for the site.

The PSL Access Building No. 66 has been partially occupied since termination of research testing, but the building has been judged to be beyond its useful life. The building mechanical and electrical systems are in poor repair, there are major Life Safety and ADA issues, and the roof

and some foundations are in poor condition. The ancillary buildings are also generally in poor condition and are no longer efficient structures for Glenn mission requirements. Demolition of these structures will reduce GRC maintenance costs and free up real estate for future structures and/or parking lots.

Historical Preservation: The PSL Cell No. 1 and No. 2 complex has historical significance because of the research work done to support a wide range of aeronautics and space related initiatives. NASA is responsible under the National Historic Preservation Act to mitigate the loss of this facility. The GRC Preservation Officer will consult with the State Historical Preservation Office to determine the appropriate level of historic preservation work to document the present condition of the PSL Cell No. 1 & No. 2 facility and its historical legacy of aeronautics and space related research. It is anticipated that funding for this activity will come from the project budget.

Community Awareness Meeting

For the Altitude Wind Tunnel and Propulsion Systems Lab 1&2

Proposed Demolition

Thursday April 27, 2006 in DEB Auditorium

Doors open 7PM, talks start at 7:15PM, questions at 8PM

- I. Introductory remarks
- II. NASA official remarks [possibly Vern Wessel, Olga Gonzales]
- III. Overview of AWT and PSL history
- IV. Description of demolition process/
Environmental Assessment briefing
- V. Historic Mitigation overview
- VI. Closing remarks
- VII. Questions

National Historic Preservation Act

With passage of the [National Historic Preservation Act in 1966](#) [NHPA], Congress made the Federal Government a full partner and a leader in historic preservation. While Congress recognized that national goals for historic preservation could best be achieved by supporting the drive, enthusiasm, and wishes of local citizens and communities, it understood that the Federal Government must set an example through enlightened policies and practices.

Section 106 of the American Historic Preservation Act states that federal agencies must consider the effects of their actions on historical properties. Each federal agency is mandated to appoint a responsible official. That official must consult with the State Historic Preservation Office

[SHPO] to determine which properties are historic. Generally an agreement is made with the SHPO which allows the agency to go forward with their project if they fund historic documentation of the facility. The SHPO may recommend a HABS-HAER document or other mitigation work be completed.

The SHPO's requirements include an opportunity for the public to comment on the project prior to any actual demolition work. The April 27, 2006 will satisfy this requirement for the Altitude Wind Tunnel and Propulsion Systems Lab 1&2 projects.