

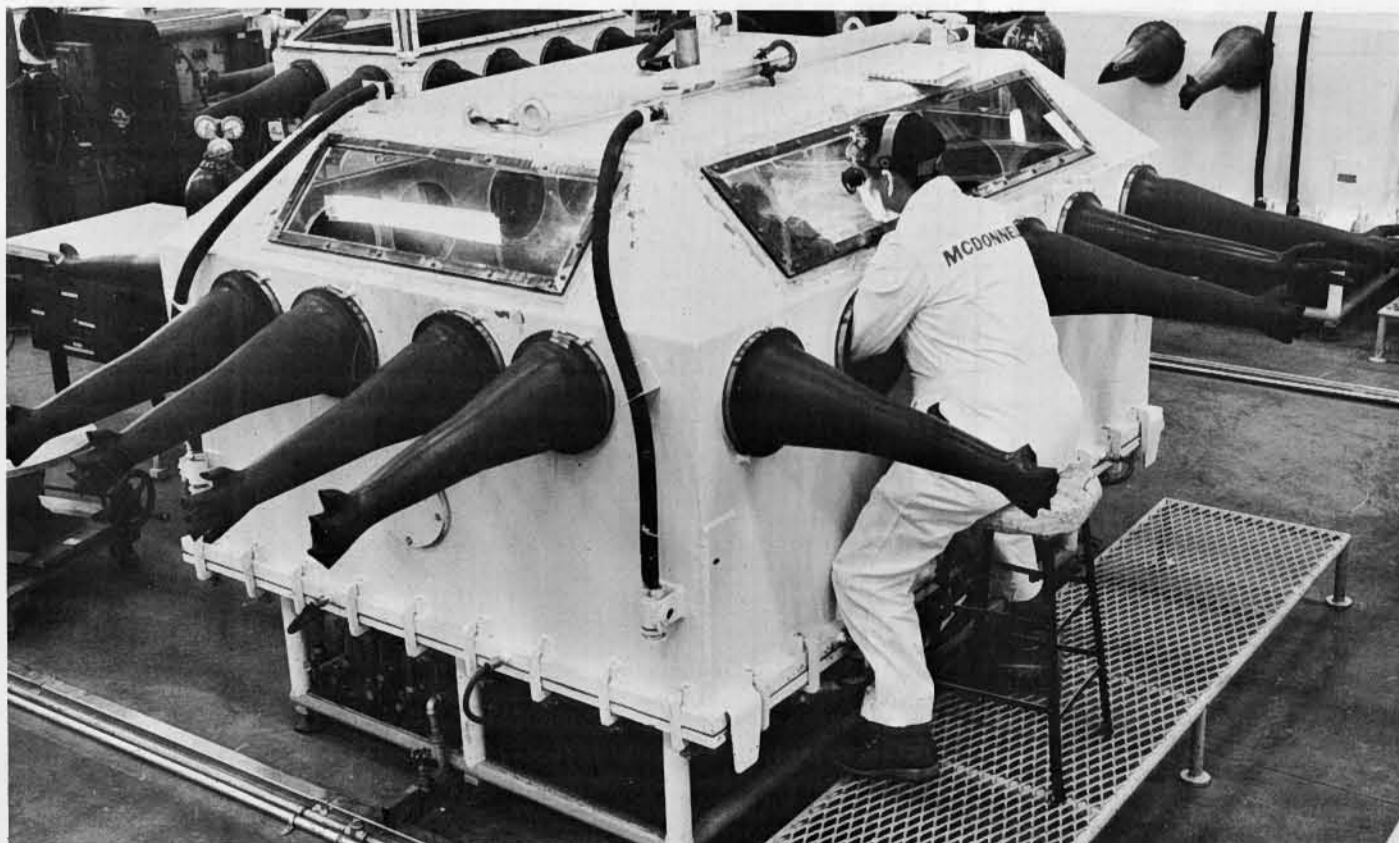
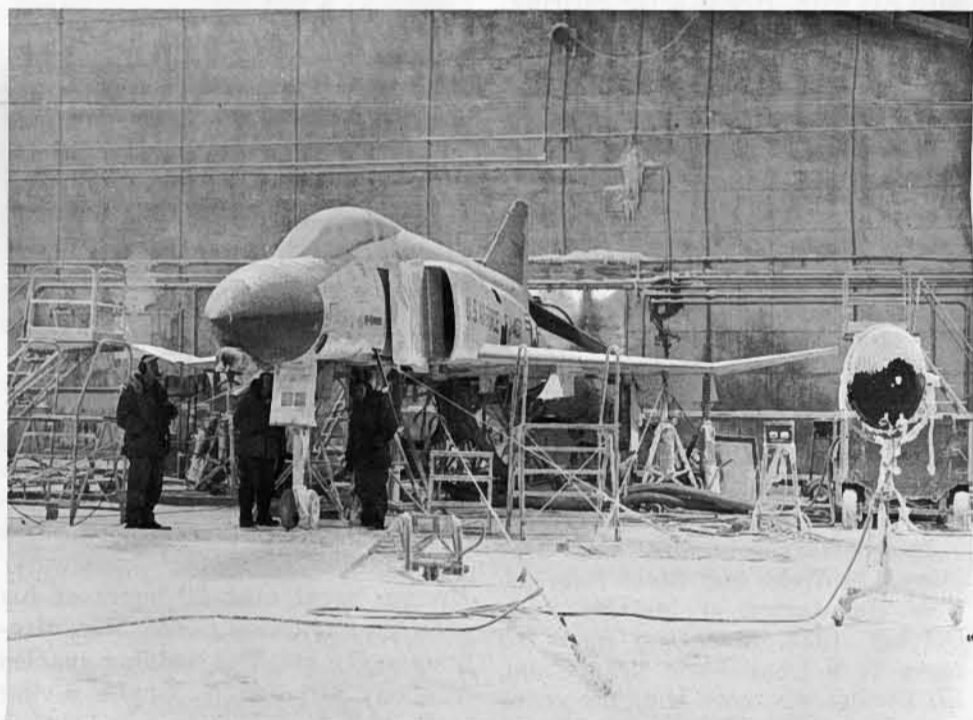
PICTURES



PHANTOMS in flight, in cold storage

McDONNELL-BUILT PHANTOMS have the spotlight or share it in these photos. Historical contrast is immediately evident (right) as a Navy F-4B streaks above replica of a 1911 Curtiss Pusher biplane which is poised for take-off by its owner-pilot. The supersonic Phantom was the fastest plane and the biplane the slowest to appear at the annual Point Mugu Space Fair near Oxnard, Calif.

The Air Force's F-4C No. 2 gets an inspection while it undergoes tests in sub-zero temperatures (below, right) at climatic hangar at Eglin Air Force Base, Florida. The Phantom, which successfully withstood temperatures up to 65 degrees below zero, has since been removed to Wright-Patterson Air Force Base, Dayton, O., and will then go to Edwards AFB in California for more Category II testing. F-4C No. 3, meanwhile, was flown in early January to Fairbanks, Alaska, for outdoor sub-zero tests. Lee Clapper and Ken Eichorn, McDonnell Field Service representatives who were at Eglin during tests on No. 2, are shown below checking over cockpit area of No. 3 after one of its first flights at Eglin Air Force Base. Clapper is at right. The F-4C is equipped with test instrumentation capable of measuring 56 pressures and 110 temperatures every 20 seconds. The term "cold soak" is applied to leaving the aircraft in the open—with temperature at least 20 degrees below zero—during the test period. A minimum of 16 hours of "cold soak" will precede each scheduled flight.



Surrealist Touch In Gemini Welding

Rubber arms extending from weld chamber provide a surrealist touch in Gemini manufacturing area in Building 102. Troy Glendening is the goggles-wearing welder with arms extended in pair of the reversible rubber gloves while he does hand fusion welding of titanium. Application of the welding chamber has speeded Gemini production at McDonnell. After the weld fixture containing the production is put into the weld chamber, the chamber air is purged by inert argon gas and the welder outside the chamber makes the fusion weld like a doctor performing an operation in an antiseptic environment while wearing a mask and rubber gloves.