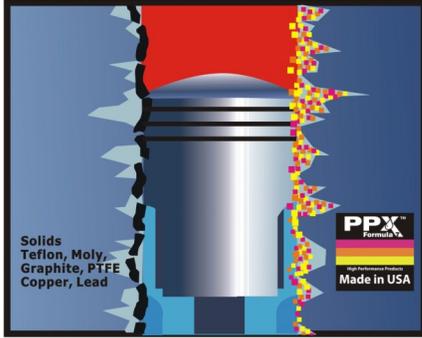


PPXTM

Formula 7



FAA RADAR ANTENNA

- ▶ LUBRICATION OF THE RADAR ANTENNA PEDESTAL
- ▶ OVERHAUL EVERY FIVE (5) YEARS
- ▶ LUBRICATION OF COOLING SYSTEM PUMPS
- ▶ LUBRICATION FOR HOT WATER HEATING SYSTEM PUMP
- ▶ RELIABILITY IS TOP PRIORITY FOR THIS SYSTEM

CUSTOMER TESTIMONIAL

CUSTOMER & TEST PROFILE

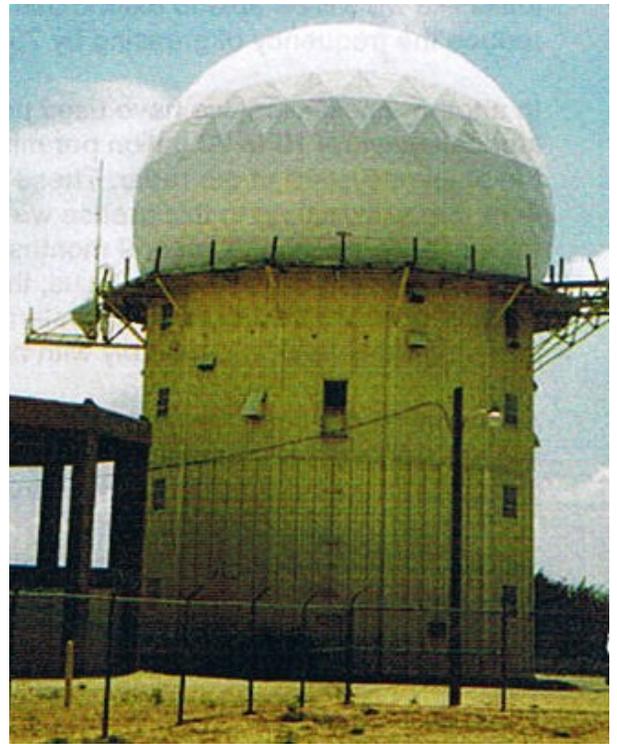
The National Airspace System, that being the acquisition and processing of Radar information, Communication & Telecommunications services for the En-Route surveillance system. These services enable our Air Traffic Control organization to monitor & control all cross country flights and maintain proper aircraft separation.

CUSTOMER TESTS & RESULTS

They started using the PPX Hi-Temp Lithium Complex Grease several years ago to lubricate the antenna pedestal for our long range radar which must operate 24 hours per day, 7 days per week. Since using this grease we have experienced less wear, and reduced friction significantly. We used to overhaul the pedestal every 5 years, but it looks like we will be able to extend this from 8 to 10 years now. It enabled us to reduce the frequency of greasing buy 75%.

They have used both the PPX Lithium Complex and Polyurea Grease to lubricate several 10 to 20 gallon per minute liquid circulating pumps which are used in the coolant system of the radar. These have always been a very maintenance intensive item. Since switching to these greases we decreased our repair requirements on them from every 2 months to every 9 months, plus we have reduced the frequency of greasing by 75%. They also use a similar set of pumps for their hot water heating system and have been able to reduce the frequency of greasing from weekly to monthly with no undesirable results.

As for the PPX Industrial Super Lube, it has been used in so many applications that it is difficult to specify one outstanding use over another, other than to say, it is a great product and we have solved some very difficult lubrication problems with it.



ADDITIONAL INFORMATION

The En Route Communications Gateway (ECG) is a mission-critical interface for surveillance and flight data. It provides the portal for the transfer of aircraft flight plan and surveillance data to other En Route systems – both legacy systems and critical Next Generation Air Transportation System (NextGen) technology, such as the En Route Automation Modernization (ERAM) program and Automatic Dependent Surveillance - Broadcast (ADS-B), while providing added network communications. The ECG system is modular in design, and system capacity can be incrementally increased as air transportation demands change.

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