## Naval Foundry and Propeller Center (NFPC) Overview for JTEG

## 26 January 2021

## (2) NFPC Overview

- The NFPC is a detachment of Norfolk Naval Shipyard and is the Navy's foundry and propeller manufacturing facility
- NFPC produces propeller components from castings made in house
- Over 750,000 square feet of production
 space
- NFPC produces ship and submarine repair components to support the public shipyards



## (2) NFPC Location

## NFPC is located on the Philadelphia Navy Yard Annex



## (2) Capabilities - Foundry Overview

- Non-ferrous sand cast foundry
- Large lift/crane capacity
- Furnaces ranging from 50 lbs. to 85 ton capacity
- Engineering-driven molding and casting design including simulation analysis



## (8) Capabilities - Machining Overview

- Large scale machining centers
-(13) five-axis numerically controlled profilers capable of machining up to 31 feet in diameter
- Engineering-driven machining process allows for minimal hand finishing work


5-Axis Numerically Controlled Machining


## (2) Capabilities - Machining Overview



## (8) Capabilities - Quality Assurance

- Precision Laser Measurement
- Multiple Faro LaserTrackers
- Leica T-Scanners to gather point clouds of complex parts and for final certification
- NAVSEA certified personnel for PT andVT non-destructive testing per Tech Pub 27I
- Full onsite Metallurgy Lab accredited by NAVSEA
- Chemical and mechanical analysis to support foundry operations



## (2) Meshing 100-Year Old Technology with Today


U.S. NAVY UNCLASSIFIED


