

The background of the slide is a deep blue space filled with numerous stars of varying brightness. A large, reddish-brown planet, likely Mars, is visible on the right side, partially cut off by the edge of the frame. The text is overlaid on this background.

**NASA/MARSHALL SPACE  
FLIGHT CENTER**

**JOINT COUNSELING SESSION**

*ION Corporation*

*Wendell Maddox, Tom Jones, Mike Davidson, Ph.D.*

**November 17, 2020**

# Background

<b>COMPANY NAME:</b>	ION Corporation	<b>ADDRESS:</b>	7500 Equitable Dr Eden Prairie, MN 55344
<b>OWNER:</b>	Wendell Maddox	<b>CONTACT NAME:</b>	Wendell Maddox; Wendell.Maddox@ioncorp.com Tom Jones; Tom.Jones@ioncorp.com
<b>EMAIL:</b>	Wendell.Maddox@ioncorp.com	<b>YEARS IN BUSINESS:</b>	36
<b>CAGE CODE:</b>	1BU04	<b>DUNS NUMBER:</b>	122707243
<b>WEB SITE:</b>	www.ioncorp.com	<b>NAICS CODES:</b>	334418, 334419, 334511, 334515, 334519, 335314, 335931, 335932, 335999, 336412, 336414, 336415, 336419, 532490, 541330, 341512, 541620, 541990

# Business Size & Classifications

<b>TOTAL EMPLOYEES:</b>	<b>60</b>
<b>AVERAGE SALES:</b>	

<b>CLASSIFICATIONS (select from list below):</b>	<b>Yes/No</b>
<b>SMALL BUSINESS</b>	Yes
<b>SMALL DISADVANTAGED BUSINESS</b>	Yes
<b>NATIVE AMERICAN-OWNED</b>	No
<b>ALASKAN NATIVE CORPORATION</b>	No
<b>WOMEN OWNED</b>	No
<b>ECONOMICALLY DISADVANTAGED WOMEN OWNED</b>	No
<b>VETERAN-OWNED</b>	Yes
<b>SERVICE DISABLED VETERAN OWNED</b>	No
<b>HUBZONE CERTIFIED</b>	No
<b>8(A) CERTIFIED</b>	No
<b>8(A) EXPIRATION DATE (if applicable)</b>	N/A



# Quality Systems

## **ISO/AS9100 Quality System**

- AS9100/ISO 9001 Registered Quality Management System since 2007

## **Experienced QA Workforce**

- QA Director: over 30 years experience (Military/Boeing/DCMA/ION)
- QA Engineers fully integrated
- Qualified Technicians and Inspectors
  - Certified IPC Trainer
    - WHMA-A-620 with Space Addendum
    - J-STD-001 with Space Addendum
    - NASA 8739.1-4
    - Customer-specific training



# Skills & Processes

## **Design Engineering - Space, Flight, & Ground Support Hardware**

- 3D Design and Prototyping (systems compatible with CATIA, NX, Mentor Graphics, Pro-E, and several others)
- Schematics: AutoCAD, AutoCAD Electrical, ORCAD
- Motion Simulation, Finite Element Analysis, Thermal Analysis, etc.
- MBD/DPD Engineering: translate 3D models into useable files for manufacturing

## **Support Engineering**

- Work instructions, detailed drawing packages
- Qual Test procedures & Acceptance Test procedures

## **Electro-Mechanical Fabrication**

- Control Panels, Rack Builds, Systems, Subsystems, Custom Interface Test Adapters (ITAs), Space Craft & Airplane Wiring Harnesses, fixtures, and hardware, Wing Tip Decoders, Mode S Beacon Radar Equipment, Gun & Fire Control Panels

## **Harness Fabrication**

- Machine Braiding, Molding and Potting , NASA 8739, IPC, J-STD

# Skills & Processes (Cont.)

## **Test Services**

- NASA & Military Qualification Tests
- Integrated Software Testing
- MIL-STD-202, MIL-STD-461, MIL-STD-810
- Shock and Vibration testing
- Drop testing
- Sand and Dust / Altitude testing
- Environmental test chambers
  - Temperature range: -125 degrees F to 400 degrees F
  - Humidity range: 0% to 100%

## **Obsolescence Engineering**

- Connector Re-engineering
- Printed Circuit Board Re-engineering
- Mechanical Fixture Re-engineering



# Customers

- Department of Defense
- Federal Aviation Administration
- Honeywell
- Jet Propulsion Laboratory
- Lockheed Martin
- NASA
- NATO
- Northrop Grumman / ATK
- Raytheon
- The Boeing Company
- US Armed Services and Air Force Bases



# MSFC FY20 Award





# Principal Points of Contact

<b>NAME</b>	<b>TITLE</b>	<b>PHONE</b>	<b>EMAIL</b>
<b>Wendell Maddox</b>	CEO/President	952-936-9490	Wendell.Maddox@ioncorp.com
<b>Tom Jones</b>	VP/General Manager	952-936-9490	Tom.Jones@ioncorp.com
<b>Mike Davidson</b>	VP	952-936-9490	Mike.Davidson@ioncorp.com
<b>John Magnuson</b>	Program Manager	952-936-9490	John.Magnuson@ioncorp.com