

## BREAKING NEWS

### Satellite Launch Planned for 2024 GA-EMS Awarded Contract for [USSF Weather Satellite Program Prototype](#)



EWS spacecraft: a new generation of high performance small weather satellites with on-orbit mission control and data collection services.

General Atomics Electromagnetic Systems (GA-EMS) recently announced that the U.S. Space Force (USSF) Space Systems Command has elected to exercise a follow-on option that will ultimately provide a prototype weather satellite that can produce operational data as part of the Electro-Optical Infrared (EO/IR) Weather System (EWS) satellite program.

GA-EMS will deliver the EWS spacecraft with an integrated EO/IR payload along with on-orbit mission control and data collection services to support the mission. EWS will support the transition from the Defense Meteorological Support Program (DMSP) on-orbit systems to a new generation of affordable, high performance, small weather satellites. Satellite launch is anticipated in 2024.



## POWERFUL PARTNERSHIPS

### Supplier Day

GA is excited to announce that we will be hosting a virtual Supplier Day to celebrate our achievements in 2021 and 2022. Supplier Day provides a unique opportunity for collaboration and relationship building with our valued Supplier Partners.

Be on the lookout for more information in our next Supplier Newsletter.

## SPOTLIGHT

### The Path to Fusion: ITER

#### What does “Global Progress Through Technology” really mean?

It means achieving what was once thought impossible, such as nuclear fusion. GA supports fusion development around the world with the operation of DIII-D, the United States' largest fusion experiment, and participates in many other fusion experiments around the world.

We were honored to have GA's participation in ITER, the largest fusion experiment ever undertaken, featured in the Associated Press article, [Magnet Milestones Move Distant Nuclear Fusion Dream Closer](#). From the article:

*The countries involved will have mastered technical skills that can be used in other fields, from particle physics to designing advanced materials capable of withstanding the heat of the sun.*

*All nations contributing to the project — including the United States, Russia, China, Japan, India, South Korea and much of Europe — share in the \$20 billion cost and benefit jointly from the scientific results and intellectual property generated.*

*The central solenoid is just one of 12 large U.S. contributions to ITER, each of which is built by American companies, with funds allocated by Congress going toward U.S. jobs.*

**“Having the first module safely delivered to the ITER facility is such a triumph because every part of the manufacturing process had to be designed from the ground up,”** said **John Smith**, Director of Engineering and Projects at General Atomics.

ITER's immense international collaboration from design to execution has provided the project with the very best talent from around the globe.



John Smith

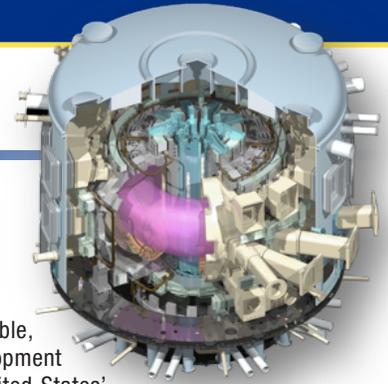
While ITER is being built, Fusion development continues. In February of 2022, the [Joint European Torus \(JET\)](#) doubled the previous record for sustained energy from a single fusion plasma experiment. This recent JET lab accomplishment is a huge step toward development of Fusion energy as a clean source of electricity for the world and bodes well for the capabilities of the larger ITER tokamak as researchers are preparing for ITER's go-live in 2026.

#### Director John Smith and his leadership at GA

John has worked in fusion for nearly 30 years. He's incredibly proud to represent GA as part of the ITER program, which began at GA in 1988. ITER, now being built in southern France, was a natural next step for GA's fusion and technology pursuits when the U.S. rejoined the ITER program in 2006. John's technical background in mechanical engineering, combined with strong project management skills, has made him a tremendous asset to the ITER program. ITER continues to create a buzz at GA, with four hardware projects supporting the construction of this massive experiment. These projects will provide immense opportunity for GA's valued Suppliers and Partners as the hardware deliverables complete their design phase and head into fabrication. With our talented personnel working to support the onsite team at the ITER tokamak, GA will have real time access to these exciting advancements and discoveries as they are made.



The GA Magnet Tehnology Team who engineered the first ITER magnet module to completion.



## SUPPLIER FOCUS

### One Year Later – U.S. Supply Chain Resiliency

On February 24, 2022, one year after President Biden signed [Executive Order \(EO\) 14017](#), seven cabinet agencies published reports with assessments of, and strategies to strengthen U.S. supply chains for the six key industrial sectors.

#### Read the White House Cabinet reports for each sector here:

- [The energy industrial base](#), by the Department of Energy (DoE)
- [The transportation industrial base](#), by the Department of Transportation (DoT)
- [The production and distribution of agricultural commodities and food products](#), by the Department of Agriculture (USDA)
- [The public health and biological preparedness industrial base](#), by the Department of Health and Human Services (HHS)
- [The Information and Communications Technology \(ICT\) industrial base](#), prepared jointly by the Department of Commerce (DOC) and the Department of Homeland Security (DHS)
- [The defense industrial base](#), by the Department of Defense (DoD)

In complement, The White House published a [capstone report](#) providing an overview of the agency reports, and a review of actions taken by the Biden Administration to reduce the vulnerability of U.S. supply chains across critical sectors. Those actions include: improving freight movement; promoting U.S. food and agricultural goods; addressing the shortage of semiconductors and promoting U.S. manufacturing capabilities; fighting COVID-19 and preparing for future pandemics by building the foundation for U.S. manufacture of medical supplies, pharmaceuticals and active pharmaceutical ingredients; securing sources of critical minerals for next generation technologies; investing in large-capacity batteries to power cars and the electric grid through the [Bipartisan Infrastructure Law \(BIL\)](#); working with allies and partners to promote collective supply chain resiliency; strengthening the U.S. workforce and eliminating barriers to full participation in the labor market; and addressing the climate crisis and leading the Clean Energy Future.

The capstone report reiterated that *“supply chain resilience is now an enduring national priority.”*

The White House also indicated that, in the coming months, a number of federal departments and agencies, including the DOC and the Department of Labor, “will host regional summits bringing together stakeholders to discuss opportunities to align regional economic development strategies with the national supply chain strategy.” As a supplier to the USG of products and services across many of these industries, GA remains focused on long-term supply chain resiliency.

Proud to directly contribute to these efforts; GA is teaming to design, build and operate a Rare Earth Element (REE) separation and processing demonstration facility in Wyoming.

*“We are looking forward to getting underway with the team to bring this demonstration project to life,”* stated **Scott Forney**, president of GA-EMS.

*“REEs are critical to a wide range of technologies supporting both commercial and defense-related applications, including electric vehicles, solar panels, fiber optics, and high-strength permanent magnets. This project will provide valuable information regarding the development of domestic rare earth element resources and separation technologies that have the potential to improve REE supply and availability to meet growing demand.”*

[Read more](#) about this effort, supporting our valued customer the DoE.

## QUALITY MATTERS

### Foundation of Effective Quality Management

When working with our Suppliers, many are small or developing, or even large businesses, striving to be their best. They often ask:

**“What is the foundation for an effective Quality Management System, and how can I support GA’s commitment to Quality?”**

**First, to the foundation.** ISO 9000 is a set of international quality management standards developed to help companies document essential elements of an effective quality management system (QMS):

- [ISO 9000:2015: Quality Management Systems - Fundamentals and Vocabulary](#) (definitions)
- [ISO 9001:2015: Quality Management Systems - Requirements](#)
- [ISO 9004:2018: Quality Management - Quality of an Organization Guidance to Achieve Sustained Success](#) (continuous improvement)
- [ISO 19011:2018: Guidelines for Auditing Management Systems](#)

**ISO 9000:2015 and the more familiar 9001: 2015 standards are based on the following seven quality management principles:**

#### • Customer focus

The primary focus of quality management is to meet customer requirements and to strive to exceed customer expectations.

#### • Leadership

Leaders at all levels establish unity of purpose and direction and create conditions in which people are engaged in achieving the organizations quality objectives.

#### • Engagement of people

Competent, empowered and engaged people at all levels throughout the organization are essential to enhance its capability to create and deliver value.

#### • Process approach

Consistent and predictable results are achieved more effectively and efficiently when activities are understood and managed as interrelated processes that function as a coherent system.

#### • Improvement

Successful organizations have an ongoing focus on improvement.

#### • Evidence-based decision making

Decisions based on the analysis and evaluation of data and information are more likely to produce desired results.

#### • Relationship management

For sustained success, an organization manages its relationships with interested parties, such as suppliers.

Suppliers supporting GA can apply these principles from the Senior Management level down to promote organizational improvement and foster a commitment to Quality. For more information on GA’s commitment to Quality, please view our [Quality Policy](#).

For more information on the seven quality management principles and how your organization can apply them, view the official [ISO publication](#).

*The American National Standards Institute (ANSI) is the U.S. representative to the International Organization for Standardization (ISO). The only source for the ANSI versions of the ISO 9000 standards is the American Society for Quality (ASQ). To obtain these standards from ASQ, please click on the links above.*

## We want your feedback

**GA is committed to outreach and communication with our valued Suppliers on topics affecting supply chain and supplier performance.**

Please take a moment to provide your feedback by answering the following questions:

1. During the past year, what has been your most significant supply chain challenge (e.g., raw materials, COVID-19 impacts, staffing)?
2. Looking forward to 2022 and beyond, what do you see as your greatest supply chain risk (e.g., environmental concerns, supply logistics, inflationary/cost impacts, geopolitical uncertainty)?
3. Are there topics not currently covered in General Atomics' Supplier Engagement Newsletter that you would like to see included?
4. As a Supplier, how can General Atomics improve their engagement with you (e.g., business reviews, increased communications)?
5. Are you aware of General Atomics' Supplier website? If so, are there specific areas or topics that you would like to see covered?
6. While working with General Atomics, what would you identify as something we do well? Correspondingly, in your interactions with General Atomics, where is an opportunity for us to improve?

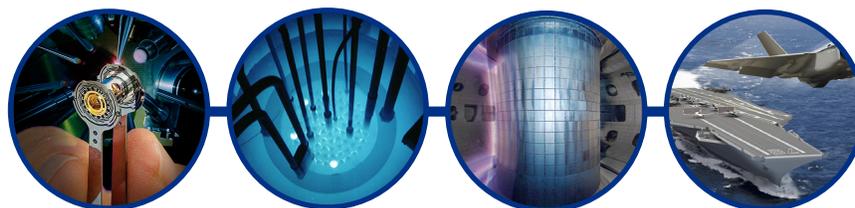
Your feedback may be submitted to our monitored email account: [SupplierEngagement@GA.com](mailto:SupplierEngagement@GA.com).



## FACT BOX

### Did you know?

GA's Orbital Test Bed (OTB) has orbited Earth 12,000 times, travelling more than 525 million miles! [Learn more.](#)



## CYBERSECURITY MATTERS

### REGULATION WATCH:

#### NDAA 2022 Cybersecurity Highlights

The Department of Defense (DoD) Fiscal Year 2022 (FY2022) National Defense Authorization Act (NDAA) clears the way for a U.S. Government focus on protecting sensitive information and moving forward with the Cybersecurity Maturity Model Certification (CMMC); in addition to strengthening the Nation's critical infrastructure. Here are some highlights that our valued Suppliers should be aware of. [Read the full text.](#)

#### Controlled Unclassified Information (CUI):

Section 1540 requires the DoD to assess compliance with DoD Instruction 5200.48 "Controlled Unclassified Information (CUI), specifically, "(A) The extent to which the Department of Defense is identifying whether information is CUI via a contracting vehicle and marking documents, material, or media containing such information in a clear and consistent manner. (B) Recommended regulatory or policy changes to ensure consistency and clarity in CUI identification and marking requirements. (C) Circumstances under which commercial information is considered CUI, and any impacts to the commercial supply chain associated with security and marking requirements. (D) Benefits and drawbacks of requiring all CUI to be marked with a unique CUI legend versus requiring that all data marked with an appropriate restricted legend be handled as CUI. (E) The extent to which the Department of Defense clearly delineates Federal Contract Information (FCI) from CUI. (F) Examples or scenarios to illustrate information that is and is not CUI."

#### Small Business Impact:

Section 848 requires the DoD to examine the potential impacts of CMMC on small businesses and deliver, within 120 days, a report, specifically detailing: "(1) the estimated costs of complying with each level of the [CMMC] framework; (2) any decrease in the number of small business concerns that are part of the defense industrial base resulting from the implementation and use of the framework; and (3) an explanation of how the DoD will mitigate the negative effects to small business concerns that are part of the defense industrial base resulting from the implementation and use of the framework."

Stay tuned to our [Supplier Website](#), and the GA Supplier Newsletter for future developments.

## CYBERSECURITY CORNER

### SAM.gov ALERT

The U.S. Government has discontinued use of the Data Universal Numbering System (DUNS). Going forward, a Unique Entity Identifier can be assigned in SAM.GOV. See [SAM.GOV](#) for more information.

As a high technology and high concept provider of Defense and Energy solutions, GA is uniquely positioned for growth and success. Global progress through technology remains our mission. **GA appreciates the support of its Suppliers in accomplishing this mission.**

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