Controlled Unclassified Information (CUI) Guide

Program: Expeditionary Power- and Energy-Dense Implementations (ExPEDitions)
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FOREWORD

1. DESCRIPTION

The ExPEDitions program aims to develop safe, electrically rechargeable batteries that deliver power at much greater energy and power density than current batteries. Current rechargeable batteries, plagued by inherent safety risks and low energy density, are unsuitable for high endurance and long-range mission sets. The Defense Advanced Research Project Agency (DARPA) Expeditionary Carbon Utilization for Energy Resilience and Stabilization (ExCURSion) program demonstrated a pathway toward a 5-10x improvement in energy density of a rechargeable electric power source in the form of a carbon-air battery. The ExPEDitions program will focus on improving the power and recharging capabilities of these systems, which are the main hurdles to their practical use. The ExPEDitions program will yield high-energy batteries for extended operational range of a wide range of assets, including unmanned aerial vehicles, ground vehicles, and heavy equipment. These capabilities could potentially mitigate or eliminate issues that arise from the current requirements for transporting and delivering fuel in contested spaces.

2. AUTHORITY

CUI elements referenced in this guide are under the authority of Executive Order 13556, Controlled Unclassified Information, November 4, 2010 (as amended) and in accordance with DoDI 5200.48, "Controlled Unclassified Information," March 6, 2020.

3. Distribution:

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1. PURPOSE

a. The purpose of this CUI guide is to ensure the protection of ExPEDitions information in accordance with (IAW) DoDI 5200.48. ExPEDitions information must be controlled and stored consistent with DFARS 252.204-7012 requirements as detailed in National Institute for Standards and Technology (NIST) 800-171.

b. This guide is not for classified national security information as defined in Executive Order 13526, but identifies specific elements of sensitive information that are unclassified but require additional protection.

2. APPLICABILITY AND SCOPE: This guide applies information, material and processes generated by ExPEDitions This guide is the basis for identifying, protecting and marking of information and material designated as a type of CUI associated with ExPEDitions. This guide is used in conjunction with related guidance (security classification guides, Department of Defense (DoD) Policy, etc) associated with the overall effort of ExPEDitions. The scope of this guide is based on ExPEDitions as planned at the date of this guide and may change over the course of ExPEDitions.

3. OFFICE OF PRIMARY RESPONSIBILITY (OPR): This CUI guide is issued by DARPA. All inquiries concerning content, interpretations, and clarification of this document should be addressed to DARPA at DSO_Security@darpa.mil.

4. CONTROLLED UNCLASSIFIED INFORMATION (CUI) CHALLENGES: CUI Challenges are directed to the OPR. Information is protected in accordance with this guide until the challenge is resolved.

5. CUI Categories. The following CUI Categories are used to protect ExPEDitions:

a. Defense: Controlled Technical Information (CTI). CTI means technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination. CTI is to be marked with one of the distribution statements B through F, in accordance with DoD Instruction 5230.24, "Distribution Statements of Technical Documents." The term does not include information that is lawfully publicly available without restrictions. "Technical Information" means technical data or computer software, as those terms are defined in DFARS clause 252.227-7013, "Rights in Technical Data - Noncommercial Items" (48 CFR 252.227-7013). Examples of technical information include research and engineering data, engineering drawings, and associated lists, specifications, standards, process sheets, manuals, technical reports, technical orders, catalog-item identifications, data sets, studies and analyses and related information, and computer software executable code and source code.

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b. Export Controlled: Export Controlled Research (EXPT). Unclassified information concerning certain items, commodities, technology, software, or other information whose export could reasonably be expected to adversely affect the United States national security and nonproliferation objectives. Export-controlled information includes dual-use items; items identified in export administration regulations, international traffic in arms regulations, and the munitions list; license applications; and sensitive nuclear technology information. This category relates to the systematic investigation into and study of materials and sources in order to establish facts and reach new conclusions.

c. Proprietary Business Information: General Proprietary Business Information (PROPIN). Material and information relating to, or associated with, a company's products, business, or activities, including but not limited to financial information; data or statements; trade secrets; product research and development; existing and future product designs and performance specifications.

d. Provisional: Operations Security (OPSEC). This category relates to unclassified information that could constitute an indicator of U.S. Government intentions, capabilities, operations, or activities or otherwise threaten/compromise operations security.

e. Financial: Budget (BUDG). Related to information concerning the federal budget, including authorizations and estimates of income and expenditures.

6. EXPORT CONTROL RESTRICTED INFORMATION: Each performer is responsible for assessing their technology and ensuring compliance with all export control laws and regulations. This CUI guide does not relieve any program participant from export control requirements.

7. DISCLOSURE of CUI.

a. Public Disclosure. Public Disclosure of any ExPEDitions information must follow the Distribution Statement A Request (DISTAR) process. Please contact the ExPEDitions OPR and Public_Release_Center@darpa.mil for additional guidance.

b. Freedom of Information Act (FOIA) Requests. All FOIA requests are directed to the DARPA FOIA Office.

c. Foreign Disclosure. CUI controlled by DARPA may be shared with foreign nationals if access to such information would accomplish a lawful government purpose and would not be detrimental to national security.

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8. CUI PROTECTION REQUIREMENTS: ExPEDitions CUI must be stored in accordance with DODI 5200.48. Processing of CUI is only authorized on systems compliant with DFARS 252.204-7012 as detailed in NIST 800-171.

9. UNAUTHORIZED DISCLOSURE

a. Personnel must immediately report all unauthorized disclosures or suspected and known security incidents, and suspicious activities involving CUI to the ExPEDitions PSO and PSR at DSO_Security@darpa.mil.

b. Data breaches of Defense Industrial Base (DIB) networks and systems involving ExPEDitions CUI material must be reported IAW DFARS 252.204-7012 requirements. In addition, all breaches must be reported to the DARPA Project contracting officer and Program Security Officer (PSO) upon discovery.

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10. INFORMATION PROTECTION GUIDANCE CHARTS

These charts are provided to assist in identifying what types of information associated with the ExPEDitions effort may be sensitive, provide guidance on the relevant markings for this information to control dissemination, and provide guidance on when these dissemination controls no longer apply. If at any time there are questions regarding which category of information something falls under, or what dissemination controls apply, individuals should request guidance from DARPA at DSO_Security@darpa.mil.

Element of Information	**Index**	**Category**	**Reason**	**LDC or Distribution Statement**	**Remarks**
Program planning documentation, including budget, schedule, and general statements of work	Financial	OPSEC BUDG	FAR 2.101 and 3.104	Federal Employees and Contractors Only (FEDCON)	
Detailed drawings, models, or documentation which identify subsystems and/or reveal or imply novel design approaches or capabilities for an ExPEDitions demonstrator or operational vehicle	Defense Export Control	CTI EXPT	DFARS 252.204.7012 and DoDI 5230.24 15 CFR Parts 73-774 22CFR, Parts 120-130	Distribution Statement C	International Traffic in Arms Regulation (ITAR) restrictions may apply Exception: Commercial-off-the-shelf components which have not been modified are unclassified Exception: External demonstrator views are unclassified Exception: Dimensions, shape, and weight of the battery are unclassified

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Technical information for novel battery components or subsystem design, production, or integration methodologies within a demonstrator vehicle	Defense Export Control	CTI EXPT	DFARS 252.204.7012 and DoDI 5230.24 15 CFR Parts 73-774 22CFR, Parts 120-130	Distribution Statement C	ITAR restrictions may apply Exception: Commercial-off-the-shelf components which have not been modified are unclassified
Encrypted raw test data from battery validation testing and demonstration of ExPEDitions batteries	Defense Export Control	CTI EXPT	DFARS 252.204.7012 and DoDI 5230.24 15 CFR Parts 73-774 22CFR, Parts 120-130	Distribution Statement C	ITAR restrictions may apply
ExPEDitions battery performance characteristics derived from analyzed test results	Defense Export Control	CTI EXPT	DFARS 252.204.7012 and DoDI 5230.24 15 CFR Parts 73-774	Distribution Statement C	ITAR restrictions may apply

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			22CFR, Parts 120-130		
Discussions of the underlying scientific processes, computational models, and simulation results of the batteries	N/A	UNCLASSIFIED	N/A	N/A	
Development and integration of critical components, including advanced catalysts and stable electrodes materials	N/A	UNCLASSIFIED	N/A	N/A	
Non-public data controlled by a business or individual as proprietary.	Proprietary Business Information	PROPIN	18 USC 1905 29 USC 664	FEDCON	FOIA Exemption 4 may be applicable.

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