



DoD INSTRUCTION 4245.16

JOINT PRODUCTION ACCELERATOR CELL

Originating Component: Office of the Under Secretary of Defense for Acquisition and Sustainment

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Purpose: In accordance with the authority in DoD Directive 5135.02, this issuance establishes policy, assigns responsibilities, and provides procedures for the function of the Joint Production Accelerator Cell (JPAC).

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SECTION 1: GENERAL ISSUANCE INFORMATION

1.1. APPLICABILITY.

This issuance applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this issuance as the “DoD Components”).

1.2. POLICY.

Through JPAC, the DoD fosters enduring industrial production capacity and resiliency and ensures capability for key defense weapon systems and supplies through the assessment and development of optimal production strategies. Strategies for key defense weapon systems and supplies include:

- a. Assessment of mitigation strategies for identified production constraints.
- b. Assessment of global production and advancing co-production opportunities for key defense weapon systems and supplies.
- c. Development of integrated strategies for production surge capability.

SECTION 2: RESPONSIBILITIES

2.1. USD(A&S).

In addition to the responsibilities in Paragraph 2.2., the USD(A&S):

- a. Designates a JPAC Executive Director as the focal point for all policies, practices, and procedures relating to the assessment and development of optimal production strategies for key defense weapon systems and supplies.
- b. Serves as the senior OSD oversight and coordinating representative for the JPAC.
- c. Provides direction for JPAC priorities in response to evolving threats to U.S. national security.
- d. Provides administrative support to JPAC as necessary.
- e. Leverages Office of the USD(A&S), DoD, and other Federal Government agency resources in support of the JPAC mission.
- f. Undertakes periodic deliberative processes with senior DoD leaders and the JPAC Executive Director to select key systems and supplies for analysis.

2.2. OSD AND DOD COMPONENT HEADS.

The OSD and DoD Component heads respond to requests for advice and assistance from the JPAC Executive Director, and coordinate with JPAC on all matters related to developing actionable recommendations to build production capacity for specific sets of key weapon systems and supplies.

SECTION 3: JPAC ORGANIZATION

3.1. MISSION.

JPAC is an office within the Office of the USD(A&S) that works to build enduring production capacity, resiliency, and surge capability for key defense weapon systems and supplies. JPAC serves as a key enabler of the National Defense Strategy, focused on building enduring advantages in the form of an agile defense industrial base to counter the pacing challenge and other evolving threats to U.S. national security.

3.2. JPAC EXECUTIVE DIRECTOR.

Under the authority, direction, and control of the USD(A&S), the JPAC Executive Director:

a. Manages and directs the staff of the JPAC in the execution of the roles and responsibilities outlined in this issuance.

b. Engages with and seeks support from other offices within the Office of the USD(A&S) that have collateral or related responsibilities and functions.

c. Coordinates and exchanges information with the OSD and DoD Components that have collateral or related responsibilities and functions.

d. As the principal advisor to the USD(A&S) on optimal production strategies for key defense weapon systems and supplies:

(1) Manages and executes JPAC activities and coordination with the DoD Components, including participation in relevant general officer/flag officer or Senior Executive Service advisory bodies addressing collateral or related responsibilities and functions.

(2) Oversees the building of enduring production capacity and resiliency.

(3) Plans for surge capability for key defense weapon systems and supplies.

e. Communicates directly with the DoD Component heads, as necessary, to implement this issuance, including requesting advice and assistance. Communications to the Military Departments will be through the Secretaries of the Military Departments, their designees, or as otherwise provided in law or directed by the Secretary of Defense in other DoD issuances. Communication to the Combatant Commanders will be in accordance with Paragraph 4.b.(3) of DoD Directive 5100.01.

f. Communicates with other government officials, members of the public, and representatives of foreign governments, as appropriate, in carrying out assigned responsibilities and functions. Communications with representatives and members of the Legislative Branch must be conducted through the Office of the Assistant Secretary of Defense for Legislative Affairs, except for communications with the Defense Appropriations Committees, which must be coordinated with the Office of the Under Secretary of Defense (Comptroller)/Chief Financial Officer, Department of Defense.

SECTION 4: PROCEDURES

4.1. ANALYSIS PARAMETERS.

a. JPAC analysis will focus on developing actionable recommendations to build production capacity for specific sets of key weapon systems and supplies. These systems and supplies may evolve with the threat environment and will be selected by USD(A&S) based on periodic deliberative processes with senior DoD leaders. JPAC will cover optimal production strategies for key defense weapon systems and supplies consistent with current projected demand. JPAC will also conduct preemptive analysis to estimate anticipated demand for key defense weapon systems and supplies, as necessary.

b. Consistent with the objective of building actionable recommendations to expand production capacity, JPAC analysis will focus on the 19 critical munitions enumerated in Section 1244 of Public Law 117-263 or as otherwise directed by USD(A&S).

c. To provide analytical foundation for future investment, JPAC will conduct analysis of aggregated demand to identify where throughput may be required in the areas identified in the March 10, 2023 and July 28, 2023 USD(A&S) Memorandums.

d. JPAC analysis will require inputs from acquisition, sustainment, manufacturing, production, and industrial base subject matter experts. Elements within the Office of the USD(A&S) will provide support as deemed appropriate by the JPAC Executive Director.

4.2. FUNCTIONS.

JPAC:

a. Analyzes production capacity for key weapon systems and supplies and identifies the limiting factors to meeting known U.S. and ally or partner nation demand and potential surge contingencies.

b. Recommends mitigations and approaches to address production constraints, to include but not limited to funding solutions.

c. Engages relevant stakeholders to explore and analyze opportunities to integrate and leverage digital engineering and advanced and additive manufacturing techniques and production processes at scale for major weapons systems.

d. Proactively and upon request, provides guidance to the USD(A&S) and other senior DoD leaders on the impacts of potential acquisition, budget, and policy decisions to suppliers and production capacity.

e. Engages industry stakeholders and manufacturing experts to integrate best practices into the defense industrial base and to keep pace with modern manufacturing to expand and enable surge capability.

f. Develops strategies and approaches to enable surge capability for production of key defense weapon systems and supplies.

g. Develops authoritative data sources within the DoD for production information on key weapon systems and their component parts.

h. Evaluates production impacts, risks, and opportunities of potential co-production or international production of key defense weapon systems and supplies.

i. Coordinates capacity expansion and direct supplier investments for scaling weapons production.

j. Obtains reports and information from relevant DoD Components as necessary, to carry out JPAC functions.

GLOSSARY

G.1. ACRONYMS.

ACRONYM	MEANING
JPAC	Joint Production Accelerator Cell
USD(A&S)	Under Secretary of Defense for Acquisition and Sustainment

G.2. DEFINITIONS.

These terms and their definitions are for the purpose of this issuance.

TERM	DEFINITION
key defense weapon systems and supplies	A set of weapon systems and their subcomponents, as well as defense supplies, as selected by the USD(A&S) based on periodic deliberative processes with senior DoD leaders.
optimal production strategy	A method or approach that minimizes cost, time, and required inputs while achieving the desired level of production output.
production capacity	The maximum amount of products or materiel that a manufacturer can produce within a set period of time using available resources.
production constraints	Factors that limit or slow production of products or materiel.
production resiliency	The ability of a production system to adapt to a change in required outputs or inputs.
surge capability	The ability of a production system to increase production outputs rapidly in response to a change in required outputs.

REFERENCES

DoD Directive 5100.01, “Functions of the Department of Defense and Its Major Components,” December 21, 2010, as amended

DoD Directive 5135.02, “Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)),” July 15, 2020

National Defense Strategy, current edition

Public Law 117-263, Section 1244, “James M. Inhofe National Defense Authorization Act for Fiscal Year 2023,” December 23, 2022

Under Secretary of Defense for Acquisition and Sustainment Memorandum, “Establishment of the Joint Production Accelerator Cell,” March 10, 2023¹

Under Secretary of Defense for Acquisition and Sustainment Memorandum, “Areas of Focus and Responsibilities for the Joint Production Accelerator Cell,” July 28, 2023²

¹ For a copy of this memorandum, contact the Office of the Under Secretary of Defense for Acquisition and Sustainment.

² For a copy of this memorandum, contact the Office of the Under Secretary of Defense for Acquisition and Sustainment