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The U.S. Army's Indirect Fire Protection Capability (IFPC) System

Background

Protecting high-value military sites against enemy cruise missile (CM), unmanned aerial system (UAS), and rocket, artillery, and mortar (RAM) attacks has long been an important consideration in protecting military forces. According to the U.S. Army, the Indirect Fire Protection Capability (IFPC) System “is a mobile, ground-based weapon system designed to defeat cruise missiles (CM), unmanned aircraft systems (UAS), and rocket, artillery, and mortars (RAM).” IFPC consists of a launcher and interceptors and is intended to “protect critical fixed- or semi-fixed assets,” and “bridge the gap between short-range air defense (SHORAD) systems, the Patriot air and missile defense system, and the Terminal High Altitude Area Defense (THAAD) system.”

Origins of the IFPC Program

The Army initiated the IFPC program, known as IFPC Increment 1, in 2004. Concerned with the pace and direction of the Army’s counter RAM (C-RAM) development, some in Congress expressed an interest in acquiring Israel’s Iron Dome C-RAM system as an interim solution. In both the FY2019 National Defense Authorization Act (NDAA) (P.L. 115-232) and the FY2019 Department of Defense Appropriations Act (P.L. 115-245), Congress directed the Army to deploy four batteries—two in 2020 and two in 2023—of a medium-range air defense system to counter cruise missiles and other threats. In response to this mandate, the Army selected Iron Dome as providing “the best value to the Army based on its schedule, cost per kill, magazine depth, and capability against specified threats.” Because of difficulties integrating the first two Iron Dome batteries into existing and planned Army air and missile defense command and control architecture, the FY2021 NDAA (P.L. 116-283) waived the requirement for the final two Iron Dome batteries. The decision not to adopt Iron Dome reportedly served as the basis for the Army initiating the IFPC Increment 2 program.

IFPC Increment 2

On September 24, 2021, the Army announced “the award of a three-year prototype Other Transaction Authority Agreement (OTA) to Dynetics (a subsidiary of Leidos) for the development and delivery of 16 launcher prototypes, 60 interceptors, and associated all-up-round magazines for the Indirect Fire Protection Capability Increment 2” (Figure 1). The OTA was valued at approximately \$237.38 million over two and a half years. Plans called for prototype development in Huntsville, AL, and Tucson, AZ, with deliveries to support testing beginning in the fourth quarter of FY2022. The first IFPC Increment 2 combat-capable battery was to be available to the Army in the fourth quarter

of FY2023. The Army originally planned to make a Milestone C Decision (decision to transition to procurement) in the second quarter of FY2024 and field the first IFPC Increment 2 battalion by FY2026.

Figure 1. IFPC Increment 2 Prototype



Source: IFPC Increment 2 Prototype: https://asc.army.mil/web/portfolio-item/ms-ifpc_inc_2-i/.

Other IFPC Variants

The Army is presently developing three IFPC variants, the Increment 2 Interceptor variant, the High Energy Laser (HEL) variant (Figure 2), and the High-Power Microwave (HPM) variant (Figure 3). Each variant is in a different stage of development, and variants are intended to operate in a complementary manner.

IFPC Increment 2 Interceptor Variant

The interceptor variant is to utilize an open architecture design to enable future missile integration. Reportedly, Increment 2 can employ the AIM-9X Sidewinder missile and the AGM-114L Longbow variant of the Hellfire missile. The Army is also testing the Israeli Tamir missile used by Israel’s Iron Dome system. In October 2025, the Army awarded Lockheed Martin an OTA agreement to prototype a second interceptor for IFPC Increment 2, intended to improve performance against cruise missile threats and expand engagement options beyond existing interceptor configurations.

November 2023 IFPC Program Delay

Reportedly, the IFPC Increment 2 program is facing a delay of at least eight months and possibly a year attributed to “aggressive activity to support fielding in Guam by 2027.” Based on new plans, Initial Operational Test and Evaluation (OT&E), originally planned for FY2025, was to begin in FY2026. Despite the delay, the Army reportedly intends to meet its 2027 Guam IFPC fielding goal.

A New Increment 2 Interceptor Variant

Reportedly, the Army is considering developing a second interceptor for IFPC Increment 2, with one official noting, “It is now clearer that the service needs a second interceptor that is more capable against lower flying, supersonic cruise missiles.” While it had been suggested that the Norwegian Advanced Surface to Air Missile System (NASAMS) could help fill the aforementioned capability gap with the AIM-120D Advanced Medium Range Air-to-Air Missile, the Army believes it is not an option, as NASAMS has a magazine depth of six rounds. Instead, the Army reportedly envisions “an AIM-120D-like capability, but with smaller rounds that fit inside an IFPC Increment 2 launcher holding 18 interceptors.” If the Army pursues a second interceptor, development would continue through 2029 to 2030 before low-rate initial production.

IFPC Increment 2 Testing

Reportedly, IFPC Increment 2 participated in a successful test event during the late summer 2024, with the Army noting it was “able to shoot down two maneuvering [uncrewed aircraft] threat systems and then we shot down a maneuvering cruise missile.”

Figure 2. Notional IFPC High Energy Laser (HEL)



Source: Notional IFPC High Energy Laser (HEL):

https://www.army.mil/article/233346/scaling_up_army_advances_300kw_class_laser_prototype.

IFPC High Energy Laser (HEL)

IFPC HEL is being designed by Dynetics to protect critical fixed- or semi-fixed assets against CMs, UASs, and RAMs using a laser as opposed to interceptor missiles. The Army planned to mount four operational 300 kilowatt (kW)-class IFPC HEL prototypes onto tactical vehicles by FY2024. If testing proved successful, the Army planned to transition the IFPC HEL to a Program of Record in FY2025.

IFPC High Power Microwave (HPM)

Figure 3. IFPC High Power Microwave (HPM)



Source: <https://breakingdefense.com/2023/01/us-army-selects-epirus-leonidas-for-high-power-microwave-initiative/>.

According to the Army, the IFPC HPM is intended to provide short-range protection for fixed and semi-fixed sites against small UAS (weighing about 55 pounds or less) swarm attacks. In January 2023, the Army reportedly awarded a \$66.1 million contract to Epirus to deliver four high-powered microwave prototypes to the Army in FY2024 for testing. Reportedly on May 15, 2024, Epirus delivered the last two IFPC-HPM systems to the Army, with Epirus further noting the systems had completed new equipment training and engineering developmental testing. June 2025 Government Accountability Office (GAO) reporting indicates that IFPC HPM remains a developmental capability focused on counter-small UAS missions and is being pursued separately from the missile-based IFPC Increment 2 system.

FY2026 IFPC Program Plans

According to *Program Acquisition Cost by Weapon System*, United States Department of Defense, Fiscal Year 2026 Budget Request:

IFPC is still being developed and implemented in phases. The Army is fielding interim solutions while developing more advanced technologies, such as pairing with the Sentinel A4 radar or the Maneuver Short-Range Air Defense (M-SHORAD) system. IFPC will involve various weapon systems, including missiles, directed energy weapons, 30mm cannon, and 7.62 mm machine guns.

Potential Considerations for Congress

Oversight questions Congress could consider include the following:

- To what extent would IFPC units be expected to protect the other services’ fixed or semi-fixed sites, such as Air Force air bases, Navy port facilities, or Marine Corps sites? If so, how does this affect IFPC force structure?
- According to a February 2024 white paper, *Army Force Structure Transformation*, the Army plans to invest in four additional IFPC battalions. What is the Army’s timeline for establishing the four new IFPC battalions and where will the battalions be stationed?

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