



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PROGRAM EXECUTIVE OFFICE, MISSILES AND SPACE
5250 MARTIN ROAD
REDSTONE ARSENAL AL 35898-8000

SFAE-MSL

SEP 15 2015

MEMORANDUM FOR US Army Acquisition Support Center, 9900 Belvoir Road,
Building 201, Suite 101, Fort Belvoir, VA 22060-5578

SUBJECT: 2015 Army Acquisition Executive's Excellence in Leadership Award
Nomination for Product Management/Product Director Office Team of the Year (O5
Level)

1. It is with great pleasure that I nominate the Cruise Missile Defense Systems (CMDS)/Aviation and Missile Research, Development, and Engineering Center (AMRDEC) Indirect Fire Protection Capability Increment 2-Intercept (IFPC Inc 2-I) and Multi-Mission launcher (MML) Development Team for the 2015 Army Acquisition Executive's Excellence in Leadership Award for Product Management/Product Director Office Team of the Year (O5 Level).
2. The CMDS/AMRDEC IFPC MML team is most deserving of this award based on its excellence in Army acquisition, teamwork, innovation and its trailblazing approach to providing cutting-edge capability to the Warfighter. The team produced the first MML prototype on time and on budget –a tremendous accomplishment.
3. The point of contact for this action is Ms. Whitney Martin, 256-313-4565, or e-mail: whitney.n.martin8.civ@mail.mil.


L. NEIL THURGOOD
Brigadier General (P), USA
Program Executive Officer,
Missiles and Space

Assistant Secretary of the Army for Acquisition, Logistics, and Technology

2015 Army Acquisition Executive's (AAE) Excellence in Leadership Award

Nomination Submission Format

Below data, excluding summary, does not count toward the two-page limit.

Nominating Organization: PEO Missiles and Space

(Name/Address/Point of Contact (POC))

Nomination Submission POC: Whitney Martin, whitney.n.martin8.civ@mail.mil

(Name/Phone Number/Email Address of Action Officer, if necessary)

This is the person who should be contacted if there are any questions about the submission.

Name, Grade, and Position Title of Nominee(s):

**CMDS/AMRDEC Indirect Fire Protection Capability Increment 2-Intercept (IFPC Inc 2-I)
and Multi-Mission Launcher (MML) Development Team**

**Nominee Employing Organization (Command/Unit/Organization or Activity): PEO Missiles
and Space**

Nominee Business Address:

5250 Martin Road

Redstone Arsenal, AL 35898

***Select Award Category for Your Nominee From the List Below:
(Please check only ONE box.)***

Army Acquisition Executive's (AAE) Excellence in Leadership Award for

Product Management/Product Director Office Team of the Year (05 Level)

Summary

Ensure that the nominee's name is complete, spelled correctly, and written as the nominee would like his/her name to appear on a certificate, award, or event program. Please note that these packets are not edited or checked; they are submitted to the award's board members in the condition that they are received.

Assistant Secretary of the Army for Acquisition, Logistics, and Technology (AAE) Award Nomination for the Indirect Fire Protection Capability Increment 2-Intercept (IFPC Inc 2-I) Team

The Indirect Fire Protection Capability Increment 2-Intercept (IFPC Inc 2-I) Product Management team and Aviation and Missile Research, Development and Engineering Center (AMRDEC) Multi-Mission Launcher (MML) development team are nominated for this Fiscal Year 2015 team award based on their excellence in Army acquisition, teamwork, innovation, and their trailblazing approach to providing cutting-edge capability to the Warfighter.

The IFPC Inc 2-I system is a mobile, ground-based short/medium range air defense system designed to defeat Unmanned Aircraft Systems (UAS), Cruise Missiles (CM), and Rocket, Artillery and Mortar (RAM) projectiles. The IFPC Inc 2-I is a pre-Major Defense Acquisition Program (MDAP) Acquisition Category (ACAT) 1D program with Office of the Secretary of Defense (OSD) oversight. The IFPC Inc 2-1 program is currently in the Technology Maturation and Risk Reduction (TMRR) phase. The program is part of the Program Executive Office, Missiles and Space (PEO MS) portfolio under the Cruise Missile Defense Systems (CMDS) Project Office.

The genesis for the IFPC Inc 2-I Block 1 system grew out of a need for a more flexible, affordable, and effective force protection solution that could mitigate a growing gap in Cruise Missile Defense (CMD) and UAS defense capability. The Avenger/Stinger system provides the current capability against these threats, but these systems are aging and facing significant obsolescence challenges. Additionally, their effectiveness has been reduced in light of the tremendous growth in threat capability. The IFPC Inc 2-Intercept Block 1 capability will mitigate much of this high priority gap by integrating existing technology (Sentinel Radar System, Integrated Air and Missile Defense (IAMD) Battle Command System (IBCS), and the AIM-9X Block II interceptor missile) with an organically developed Multi-Mission Launcher (MML).

Over the past year the IFPC/AMRDEC team (composed of an approximate total of 180 professional military, core, and matrix government civilians as well as SETA contractors) has continued to demonstrate that a Government-to-Government partnership can develop and deliver a system capable of meeting Warfighter needs on time and on budget. Through a shared vision and destiny of making the IFPC capability a reality, the team has displayed the cooperation and communication needed to transform concepts to designs, and designs to hardware and software. Program leadership, along with Integrated Product Teams (IPT) have collaborate effectively to systematically develop this capability, ensuring that user requirements are met. Through their collective ingenuity the team has developed an air defense capability with an open systems architecture capable of firing multiple different interceptors and leveraging the networked fires capability of the IBCS network. This architecture allows for flexibility in meeting the threats of our adversaries in a future that is unknown and unknowable. In virtually every aspect of the system this reality is demonstrated.

Through the team's dedicated efforts hardware was demonstrated on schedule and in a relatively short period of time. Just eight months after entering the TMRR phase the team conducted a successful tube demonstration event in October 2014 at China Lake, where data was collected on firing three different interceptors. This event validated the robustness of the tube design and its mechanical open systems architecture. In March 2015 the team also conducted a successful launch demonstration event at White Sands Missile Range (WSMR), where an MML Launch Demonstration Unit successfully launched three missile types, proving out the tube to launcher interface. Even more impressive was an AIM-9X missile engagement from the MML, which successfully engaged and destroyed a UAS-class target. In conjunction with the design work the IFPC/AMRDEC team has also made early Warfighter involvement

in the program routine through multiple user jury events. Through these events, hardware and software engineers have gained valuable feedback that is yielding a more effective product without the need for costly redesign in the future. Most recently, the IFPC/AMRDEC team produced the very first MML prototype from AMRDEC on time and on budget. A tremendous accomplishment.

To achieve these programmatic feats, one of the hallmarks of the team is the development of integrated program metrics that have been critical to maintaining cost and schedule performance in this unique Government to Government arrangement. Prime contractors are typically required to employ an Earned Value Management (EVM) program. However, in this arrangement, the IFPC/AMRDEC team developed and the government implemented EVM best practices from the ground up. These metrics have been used to proactively identify potential problem areas that enable program leadership to make critical key adjustments and keep the program on schedule. These metrics have now become a standard for other programs seeking to do work within the government organic industrial base. In fact, these metrics are also being implemented by the Sentinel radar program with Letterkenny Army Depot (LEAD) and will also be used by the IFPC program at LEAD during the Engineering and Manufacturing Development (EMD) phase of the program.

Along with hardware, the IFPC program has a significant software development component as well. The strong collaborative teamwork of the IFPC, AMRDEC Software Engineering Directorate (SED), IAMD, and multiple interceptor vendors has made it possible to quickly design, integrate, and test software capability with fewer errors, thereby saving time and money. In the process, the team has realized a Better Buying Power objective of acquiring robust software with increased efficiency in the current budget-constrained environment. The team effectively uses the Agile method of software development that identifies potential issues early and allows fixes to be implemented that reduce risk. In fact, the IFPC program use of Agile software development was recently highlighted in the OSD's *Army AL&T* periodical. The team has also utilized a software models based design approach that leverages a significant amount of existing government-owned software for use in the IFPC program.

Further highlighting the team's ingenuity and unrelenting pursuit of mission accomplishment, the IFPC program has pursued bailment agreements with multiple interceptor vendors. Through a bailment agreement, industry and the government partner to share the expense of a development effort. This contractual arrangement allows the early integration of interceptor capability into the IFPC system at a much reduced cost to the government. Through this industry also benefits from this open-minded approach by gaining insight into the Army's next air defense system. Through bailment agreements the IFPC program has demonstrated integration of the Advance Improved Interceptor Initiative (AI3), Miniature Hit-to-Kill, and will demonstrate the Israeli Tamir Counter Rockets, Artillery, and Mortars (CRAM) interceptor at the program's engineering demonstration in March 2016. The team has proven that even in a fiscally constrained environment, cutting edge technology can be pursued affordably.

The cooperative efforts and demonstrated success of the IFPC/AMRDEC partnership have proven that the government industrial base is a capable and cost-effective way to develop complex systems for our Warfighters. The program has met each of its key events on schedule and within budget and has built Army and OSD stakeholders' confidence in this method of acquisition. As the program moves forward into the EMD phase the IFPC/AMRDEC team continues to employ disciplined processes and best acquisition practices that will ensure success.