

International Test and Evaluation (IT&E)

DOT&E, under the authority of section 2350(1), title 10, U.S. Code in 2001, manages the International Test and Evaluation Program (ITEP) for the DOD. This program directly aligns with the FY18 National Defense Strategy third Line of Effort—strengthen alliances and attract new partners.

ITEP bilateral and multilateral agreements allow for Cooperative Test and Evaluation (CTE) Project Arrangements (PAs); Equipment and Material Transfers; Working Groups; and Reciprocal Use of Test and Facilities (RUTF) PAs. These projects benefit the United States and our allied partners by enabling access to environments and facilities to achieve coalition and joint force operational realism; sharing T&E technologies, data, and costs; and standardizing test and analytical procedures.

PAs authorize U.S. and partner nation test organizations to conduct test planning, conduct, and data sharing. The PA identifies the systems being tested, the test location, and the test organizations and their responsibilities, including points of contact, estimated test dates, and financial, legal, and security arrangements.

CTE and RUTF PAs allow the use of test environments and test facilities that best represent the operational environment where the warfighter will use the system to accomplish the mission.

The RUTF PAs are not available under any other international agreement.

The United States has bilateral agreements with 11 allied partners and 1 five-nation agreement, the Multinational Test and Evaluation Program (MTEP). During FY19, IT&E discussions reached advanced stages to establish a new bilateral agreement with another foreign partner. Discussions also progressed on establishing a Trans-Atlantic MTEP, involving France, Germany, Italy, the United Kingdom (UK), and the United States. The agreement is structured so more countries could be added after it is implemented.

In FY19, DOT&E approved one CTE and nine RUTF PAs. One RUTF PA allowed the U.S. Navy to conduct unique integration testing using a coalition partner’s ship. Taking place in March 2019 off the coast of Virginia, the U.S. Navy deployed several different unmanned, next generation mine countermeasures (MCM) assets and sensors on board the British Royal Fleet Auxiliary (RFA) Landing Ship Dock Auxiliary *Mounts Bay* (Figure 1). In this event, the U.S. Navy’s MCM community tested its ability to command and control MCM operations. RUTF PAs, such as this one, are not available under any other international agreement.



Figure 1. American and British sailors in the well deck of RFA Landing Ship Dock Auxiliary *Mounts Bay*

Under another RUTF PA, the U.S. Navy completed complex missile defense testing on the UK Hebrides Test Range in May 2019. As part of the biennial NATO exercise “Formidable Shield 2019,” the United States tested integrated air and missile defense capabilities alongside eight NATO partners (Figure 2). This included engagement of both ballistic missiles and air-breathing targets.



Figure 2. USS *Carney* (DDG 64) fires an SM-2 during Formidable Shield 2019

A CTE agreement is being used to share resources and exchange technical expertise between the United States and Canada for rapidly repairing damaged airfields in cold weather environments. The United States and Canada will conduct testing in Goose Bay, Newfoundland, Canada, from January to February 2020. This test involves demonstrating rapid damage assessment and crater repair capabilities in extreme cold weather conditions (-60 degrees Fahrenheit). The Air Force is leading this effort for the United States.

FY19 DOD PROGRAMS

All bilateral and multinational IT&E projects conducted in FY19 are listed in Table 1.

TABLE 1. INTERNATIONAL TEST AND EVALUATION (IT&E) PROJECT ARRANGEMENTS IN EFFECT IN FY19

IT&E PROJECTS	ENTRY INTO FORCE/EFFECTIVE DATE	TEST ACTIVITY DATES AND LOCATIONS
Field Test and Evaluation (T&E) of the Australian Special Operations Engineer Regiment Chemical and Biological Defence and Explosive Ordnance Disposal Tactics, Techniques, and Procedures Reciprocal Use of Test and Facilities (RUTF) PA (Australia)	September 13, 2019	September 30 to October 11, 2019 Dugway Proving Ground (DPG), Utah, U.S.
Electronic Warfare Data Collection for the Virtual Simulation Systems Validation RUTF PA (Canada)	July 26, 2019	September 29 to October 21, 2019 Wright-Patterson Air Force Base (AFB), Ohio, U.S.
International Novel Threat Agent Characterization Trials RUTF PA (United Kingdom)	May 14, 2019	May 20 to July 5, 2019 Porton Down, UK
Cold Rapid Airfield Damage Repair Solutions CTE PA (Canada)	May 7, 2019	Various test periods between 2019 and 2022 Goose Bay, Newfoundland, Canada
Electronic Warfare Operational Test RUTF PA Amendment 1 (Canada)	May 7, 2019	Various test periods between 2019 and 2021 Marine Corps Base Hawaii, U.S.
20 Wing, Royal Air Force, Regiment, Chemical and Biological Defence Tactics, Techniques, and Procedures RUTF PA Amendment 2 (United Kingdom)	March 28, 2019	April 15 to May 10, 2019 DPG, Utah, U.S.
Mine Countermeasures Adaptive Force Package Integration Test RUTF PA (United Kingdom)	March 5, 2019	March 18 – 29, 2019 At sea, aboard RFA <i>Mounts Bay</i>
Annex to Combat Archer RUTF PA (Canada)	January 24, 2019	January 30 to February 22, 2019 Eglin AFB, Florida, U.S.
Integrated Air and Missile Defense Testing RUTF PA Amendment 4 (United Kingdom)	November 1, 2018	May 2019 Hebrides, Scotland, UK
Integrated Early Warning Defense of Bases, Stations, and Installations RUTF PA (Canada)	October 9, 2018	October 14 – 20, 2018 DPG, Utah, U.S.