ENCLOSURE 1: Government Furnished Resources Amendment 0001

1.0 PURPOSE AND SCOPE

This enclosure identifies the Government Furnished Equipment (GFE), Government Furnished Information (GFI), and Government Furnished Access (GFA) that the United States Coast Guard (USCG) will provide to the Contractor to support the design, development, integration, and testing of the MH-60T Level 7 Flight Training Device (FTD), Hoist Mission Training System (HMTS), and Portable Hoist Mission Training System (P-HMTS). The Contractor shall be responsible for the secure handling, configuration management, and tracking of all provided items in accordance with the contract requirements.

2.0 CONTRACTOR RESPONSBILITY

The Contractor shall not assume the availability of any Government resources including any item discussed prior to contract award or listed in the tables below, unless it is explicitly and formally identified as "Government-Furnished Resources" in the final, signed contract award document. The responsibility to propose a complete technical solution, including the sourcing of all required components, rests entirely with the Contractor.

Table 1 lists items that the Contractor is responsible for providing. This list is for planning and informational purposes.

Table 1: Contractor Property List

Nomenclature / Part Name	Part Number	Quantity
Collective Stick Assembly	70400-81402-042T	2
Collective Grip Assembly	70400-81805-103	2
Cyclic Grip Assembly	70400-21222-044T	2
Cyclic Stick Assembly	70400-21222-042	2
Anti-Torque Pedals (Set)	70400-01620-043 (LH) 70400-01620-042 (RH)	2
Throttle Quadrant Assembly	70301-21000-047 (#1 engine) 70301-21000-048 (#2 engine)	1
Instrument Panel Structure	1008M60T300-10	1
Center Console Structure	70450-81070-050	1
Overhead Console Structure	1032M60T100-10	1

Table 1: Contractor Property List		
Nomenclature / Part Name	**Part Number**	**Quantity**
Rotor Brake Handle and Assembly	70651-21100-042	1
Utility Light (Map Light)	70553-21001-013 (LH) 70553-21001-014 (RH)	2
Multi-Function Display (MFD)	822-1796-001	5
Data Transfer Unit (DTU-7100)	822-2429-001	1
Control Display Unit (CDU-7000D)	822-2538-001	2
Video Processor Module (VPM)	822-2017-001	2
Processor Switch Module (PSM)	822-1850-001	2
Interactive Hand Control Unit (IHC) - Pilot	73E-4405-00	1
Interactive Hand Control Unit (IHC) - Co-Pilot	73E-4406-00	1
Multifunction Knob Panel	22D2220-041	2
HUD Signal Data Converter	125110-008	1
Pilot Control Unit – FLIR	26110-200	1
Clock/Chronometer	M880A	2
Weather Radar Control Panel	7008471-7710	2
DAFCS Computer	812450-4-004	1
HUD System (Full Assembly)	125110-008 (HUD SDC)	1
E/O Sensor System (Full Assembly)	23855-201 (Turret) 23856-201 (CEU) 1054M65H200-10 (FLAC Panel) 26110-200 (Pilot Controller) 23857-200 (Joystick) 24202-002 (Display Unit)	1

3.0 GOVERNMENT FURNISHED INFORMATION (GFI) & SOFTWARE

The Government shall provide the technical data, manuals, and software baselines listed in Table 2. Utilizing existing simulator software, flight dynamics, engine models, and databases is a core requirement to reduce developmental costs, minimize technical risk, and ensure training consistency across the fleet. The GFI will be provided to the Contractor via DoD Secure Access File Exchange (SAFE) and in accordance with its file exchange guidance. https://safe.apps.mil/

Table 2 – Government Furnished Information (GFI)

Item #	Nomenclature / Description	Format / Media	Delivery Timeline	Comments / Restrictions
GFI-01	Existing MH-60T Simulator Flight Dynamics / Aero Model	Digital / Source Code	15 DACA	Source code and tuning parameters from the existing MH-60T simulator.
GFI-02	Existing MH-60T Simulator Engine Data (T700-GE-401C)	Digital / Source Code	15 DACA	Performance logic, fuel flow, and torque models from the existing simulator.
GFI-03	Aircraft Manuals (Flight/NATOPS, Maintenance, & IPC)	Digital (PDF)	15 DACA	Includes the Illustrated Parts Catalog (IPC) for hardware replication.
GFI-04	Interface Control Documents (ICDs)	Digital (PDF)	30 DACA	Includes MIL-STD-1553B / ARINC 429 bus architecture for all systems.
GFI-05	NGA Aeronautical Datasets (DAFIF)	Digital (DVD/XML)	30 DACA	DVOF is critical for low-level obstacle/tower modeling.
GFI-06	Teledyne FLIR ESS-M POV Reference Video	Digital (MP4)	45 DACA	Video showing sensor symbology, white-hot/black-hot, and latency.
GFI-07	Hoist & SAR Mission POV Reference Video	Digital (MP4)	45 DACA	POV from cabin/hoist showing cable dynamics and rotor wash.
GFI-08	USCG SAR Tactics, Techniques, and Procedures (CGTTP)	Digital (PDF)	15 DACA	To support HMTS scenario development and cable physics.

Table 2 – Government Furnished Information (GFI)				
Item #	**Nomenclature / Description**	**Format / Media**	**Delivery Timeline**	**Comments / Restrictions**
GFI-09	Instructor Operator Station (IOS) Software Baseline	Digital / Source Code	30 DACA	ATC Mobile's current IOS baseline for UI/UX commonality.
GFI-10	Existing MH-60T Simulator Aural/Audio Database	Digital / Hard Drive	30 DACA	Existing sound samples and profiles to baseline the new aural cueing system.
GFI-11	Visual system interface source code	Digital / Source Code	30 DACA	Software managing high-speed data communications, field-of-view synchronization, and image generator commands between the host simulation computer and the visual display system.
GFI-12	Motion System Interface Source Code	Digital / Source Code	30 DACA	Software processing platform commands and transmitting washout-filtered acceleration profiles to the hydraulic or electric motion actuator controllers.
GFI-13	Controls system interface source code	Digital / Source Code	30 DACA	Software interfacing with the active flight controls, managing force-feel gradients, trim loading, and control loading system feedback loops.
GFI-14	Real-time executive source code	Digital / Source Code	30 DACA	The core scheduler software that orchestrates, times, and prioritizes all simulation sub-models to ensure deterministic execution at the required frame rate (e.g., 60Hz or 120Hz).
GFI-15	Input/Output system source code	Digital / Source Code	30 DACA	Software managing the translation and distribution of physical

Table 2 – Government Furnished Information (GFI)				
Item #	**Nomenclature / Description**	**Format / Media**	**Delivery Timeline**	**Comments / Restrictions**
				cockpit switch/dial inputs and simulated instrument/annunciator outputs across the hardware interface.
GFI-16	Aircraft Systems Source Code (Engines, Hydraulics, Transmission, Electrical, APU…)	Digital / Source Code	30 DACA	Software modeling the thermodynamic, mechanical, fluid, and electrical behaviors of core aircraft systems to simulate realistic aircraft states and failures.
GFI-17	Cueing Source Code	Digital / Source Code	30 DACA	Generates and synchronizes visual, aural, and motion cues.
GFI-18	Environmental Source Code	Digital / Source Code	30 DACA	Software simulating atmospheric conditions, weather effects (wind, turbulence, rain, temperature, pressure), diurnal cycles, and their dynamic aerodynamic impacts.
GFI-19	Vibrations Source Code	Digital / Source Code	30 DACA	Software modeling helicopter-specific vibration profiles (rotor harmonics, aerodynamic buffet, landing gear contact) transmitted to the cockpit and controls.
GFI-20	De-Brief Systems Interface source code	Digital / Source Code	30 DACA	Software managing the recording, playback, and synchronization of flight telemetry, audio, video, and instructor actions for post-mission student analysis.
GFI-21	Navigation Radios/Systems source code	Digital / Source Code	30 DACA	Software simulating onboard navigation receivers (GPS, VOR, ILS,

Table 2 – Government Furnished Information (GFI)				
Item #	**Nomenclature / Description**	**Format / Media**	**Delivery Timeline**	**Comments / Restrictions**
				TACAN, ADF) and processing spatial position against virtual navigation databases.
GFI-22	Comms Radios source code	Digital / Source Code	30 DACA	Software modeling aircraft communication transceivers (UHF, VHF, HF, Intercom), tuning interfaces, and simulated radio propagation/interference.
GFI-23	T-CAS source code	Digital / Source Code	30 DACA	Software simulating the Traffic Collision Avoidance System, including transponder interrogation, airspace surveillance, and resolution advisories.
GFI-24	Air Data Sensors source code	Digital / Source Code	30 DACA	Software modeling pitot tubes, static ports, and temperature probes to calculate raw atmospheric pressures and temperatures acting on the airframe.
GFI-25	Air Data Computers source code	Digital / Source Code	30 DACA	Software simulating the calculation of flight parameters (indicated/true airspeed, altitude, vertical speed, Mach number) from raw sensor inputs.
GFI-26	Avionics Bus Source Code source code	Digital / Source Code	30 DACA	Software managing data bus architecture protocols (such as MIL-STD-1553 or ARINC 429) to handle high-speed messaging between simulated subsystems.

Table 2 – Government Furnished Information (GFI)				
Item #	**Nomenclature / Description**	**Format / Media**	**Delivery Timeline**	**Comments / Restrictions**
GFI-27	ESIS source code	Digital / Source Code	30 DACA	Software replicating the Electronic Standby Instrument System, providing independent backup displays of attitude, altitude, airspeed, and slip/skid.

*DACA = Days After Contract Award

4.0 GOVERNMENT FURNISHED EQUIPMENT (GFE)

The Government shall provide the equipment listed in Table 3 to be integrated into the training devices or used during development. The Contractor is responsible for the transport, cleaning, and integration of this GFE.

Table 3 – Government Furnished Equipment				
Item #	**Nomenclature / Description**	**Qty**	**Delivery Date & Location**	**Disposition at Contract Closeout**
GFE-01	Retired, non-operational MH-60T helicopter fuselage	1	45 DACA (Shipped to Contractor Facility)	Incorporated into final FTD deliverable.
GFE-02	MH-60T Cockpit Structure	1	45 DACA (Shipped to Contractor Facility)	Incorporated into final FTD deliverable.
GFE-03	Complete Set of Cockpit Windows	1	45 DACA (Shipped to Contractor Facility)	Incorporated into final FTD deliverable.
GFE-04	Pilot & Copilot Seats	1	45 DACA (Shipped to Contractor Facility)	Incorporated into final FTD deliverable.

5.0 GOVERNMENT FURNISHED ACCESS (GFA)

To ensure the Contractor can achieve "full functional and physical equivalence" while leveraging existing models, the Government will provide physical access to the *existing MH-60T flight simulator* located at ATC Mobile, AL.

Item #	Description of Access	Duration	Location	Purpose
GFA-01	Unrestricted access to the existing static, powered-on MH-60T Flight Simulator.	Up to 5 Days	ATC Mobile, AL	3D scanning, physical measurements, and tactile/force testing.
GFA-02	Access to the existing MH-60T Flight Simulator during dynamic operation.	Up to 3 Days	ATC Mobile, AL	Baseline verification of aero/engine models, motion cueing, and aural profiles.
GFA-03	Escorted Facility Access for Airfield Photography/Surveys.	As Needed	Required USCG Air Stations	Photography of structures, runway textures, and signage not in the existing VDB.

6.0 PROCEDURES FOR REQUESTING ADDITIONAL GFI/GFE

In the event the Contractor requires GFI or GFE not explicitly identified in this attachment to execute design, integration, or testing tasks, the Contractor's Program Manager shall submit a formal written request to the Contracting Officer's Representative (COR) and the USCG Program Manager.

This request must:

1. Clearly identify the specific data, manuals, hardware, or technical documentation required.
2. Provide a detailed justification linking the requested item to specific CLINs or SOW deliverables.
3. Specify the critical "need-by" date to prevent schedule delays.

All formal requests and their fulfillment status shall be logged, tracked in the Monthly Status Reports (CDRL A005), and reviewed during regular Technical Interchange Meetings (TIMs) and Quarterly Program Management Reviews (PMRs) until the request is fulfilled or an alternative mitigation strategy is approved by the Government.