10.27 Aircraft Gun Systems (AGS) / Aircraft Crew Served Weapons (ACSW) Maintenance Program (NAMPSOP)

10.27.1 References

a. OPNAV M-8000.16, The Naval Ordnance Management Policy Manual

b. COMNAVAIRFORINST 8380.2A, Aircraft Armament Systems Program

c. NAVSUP P-700, Common Naval Packaging (https://tarp.navsup.navy.mil)

10.27.2 Introduction

10.27.2.1 AGS/ACSW pose a significant risk to the safety of personnel, aircraft, and equipment if maintenance requirements are not strictly complied with. Accordingly, this NAMPSOP establishes fundamental procedures for managing the maintenance of Navy and Marine Corps AGS/ACSW.

10.27.2.2 The AGS/ACSW NAMPSOP falls under the Aircraft Armament Systems (AAS) Program.

10.27.2.3 All Navy and Marine Corps O-level and I-level activities responsible for maintenance, custody and monitoring of AGS/ACSW must comply with the procedures of this NAMPSOP. This includes contractor maintenance, commercial and government activities that operate, directly support, repair or maintain Naval AGS/ACSW and components.

10.27.2.4 COMNAVAIRFOR Aircraft Armament System (N46B2) is the AGS/ACSW Type Commander (AAS TYCOM). Address: COMNAVAIRFOR (N46B2), PO Box 357051, San Diego, CA 92135-7051.

10.27.2.5 COMNAVAIRSYSCOM (PMA-242) is the NAVAIR Program Office for AGS/ACSW. Address: COMNAVAIRFOR (N46B24), PO Box 357051, San Diego, CA 92135-7051.

10.27.3 Responsibilities

10.27.3.1 COMNAVAIRFOR Aircraft Armament Systems Type Commander (N46B2):

a. Publish AAS Program policy addressing peculiar T/M/S, organizational, and intermediate level AGS/ACSW maintenance procedures.

b. Provide updates to COMNAVAIRFOR NAMP Policy and Inspections (N422C) for the AAS Program section of the Computerized Self-Assessment Checklist (CSEC).

c. Coordinate with NAVAIR Program Offices in developing T/M/S aircraft, organizational and intermediate level AGS/ACSW maintenance procedures.

d. Coordinate with NAVAIR Program Offices to reconcile and direct corrective action for AGS/ACSW rounds fired discrepancies for life-limited components.

e. Provide authorization and direction to activities to release/restrict AGS/ACSW from flight or firing due to suspected rounds fired accumulation discrepancies on life-limited components.

f. Per 10.27.7, direct all Beyond Capability of Maintenance (BCM) actions and all actions to dispose of AGS/ACSW.

10.27.3.2 COMNAVAIRFOR Aviation Maintenance Management Teams (AMMT):

a. Coordinate with COMNAVAIRFOR AAS TYCOM to develop and update AGS/ACSW maintenance CSEC questions.

b. Inspect O-level and I-level activities for compliance with the AAS Program and contact the AAS TYCOM immediately upon discovery of rounds fired accumulation errors for life-limited components.

10.27.3.3 Type Wings and Marine Aircraft Wings (MAW):

a. If required, publish a Local Command Procedure (LCP) per Appendix D to address peculiar T/M/S, operational, and/or geographic AGS/ACSW procedures not addressed in this NAMPSOP.

b. Implement and supervise activity adherence to AAS Program maintenance policies promulgated as per OPNAV M-8000.16, COMNAVAIRFORINST 8380.2A, T/M/S aircraft and equipment technical manuals, and this NAMPSOP.

c. Conduct Maintenance Program Assessments (MPA) per 10.24 to assess compliance with the AAS Program and related directives.

10.27.3.4 Maintenance Officer:

a. (O-level) Designate either the Ordnance Officer, Weapons Officer, Ordnance/Division Chief Petty Officer, Ordnance SNCOIC or activity equivalent as AAS Program Manager.

b. (I-level) Designate either the Ordnance Department Officer, Division Officer, Ordnance/Division Chief Petty Officer, Ordnance SNCOIC or activity equivalent as AAS Program Manager. At MALS, this designation will be made by the MALS Commanding Officer.

c. Designation will be in writing via ASM.

10.27.3.5 Quality Assurance (QA) Officer: Per 10.7.4.5, designate an Ordnance Quality Assurance Representative (QAR) as the AAS Program Monitor. Designation will be in writing via ASM.

NOTE: Other QARs or QA Specialists may monitor this program; however, the designated Program Monitor must perform the annual program audits per 10.7.4.7.

10.27.3.6 Program Manager:

a. Conduct initial and annual Program Manager audits per 10.7.4.7.

b. Be familiar with AGS/ACSW for T/M/S and components, OPNAV M-8000.16, COMNAVAIRFORINST 8380.2A, applicable maintenance technical manuals, LCPs, checklists, and this NAMPSOP.

c. Maintain All Weapons Information System (AWIS) Aircraft Armament Equipment (AAE), Gun Inventory Tracking and Reporting (GITR), DRWeb access and CM ALS (view only) permissions.

d. Be designated as an "Initiator" for discrepancy reports submitted to the Joint Deficiency Reporting System (JDRS) and DRWeb.

e. Provide NAMP indoctrination and refresher training on AGS/ACSW policy per 10.1.3.7. Ensure AGS/ACSW personnel receive AGS/ACSW familiarization prior to maintenance while assigned to the work center and annually thereafter.

f. Verify Logs and Records (Navy)/Maintenance Administration (Marine Corps) and the Ordnance Work Center Supervisor are reconciling total rounds fired count accumulations between OOMA and GITR. If rounds fired accumulation does not match, refer to NOTES 4, 6, 7 and 8 of Figure 10.27-1 for corrective action.

(1) O-Level activities will conduct reconciliation at the end of each firing week.

(2) I-level activities will conduct reconciliation quarterly.

g. Contact the AAS TYCOM via Technical Dialog if any of the following occur:

(1) Transferring AGS/ACSW between Prime Pools.

(2) AGS/ACSW is found to be not-ready for issue (NRFI) during acceptance/transfer inspection.

(3) AGS/ACSW is received without a CM ALS.

(4) Weapons or components are found to have been over-fired due to rounds fired accumulation errors.

(5) Requesting BCM action and/or DRMO disposition authorization.

NOTE: Units should consult with their Type Wing or MAW prior to contacting CNAF AAS TYCOM about AAS errors or deficiencies.

h. Maintain a program file to include:

(1) Points of Contact (POC)

(2) An electronic or hardcopy list of current AGS/ACSW assigned to activity.

(3) Program related correspondence and message traffic.

(4) A current copy of AGS/ACSW references or cross-reference locator sheets.

(5) Copies of the most current AAS Program Manager audit and QA Program Monitor audit.

10.27.3.7 Program Monitor:

a. Perform the annual QA audit of the AAS Program per 10.7.4.7.

NOTE: The QA audit must examine at least 25% of the equipment, records, documentation, and qualifications of personnel involved with AGS/ACSW maintenance. Workload permitting, 100% of the process should be covered.

b. Verify all AGS/ACSW maintenance technical manuals, maintenance requirement cards, instructions and publication changes for T/M/S are current, complete, and on-hand in the Central Technical Publication Library (CTPL). Publications may be either electronic or paper. Electronic publications must be uploaded and available to the Ordnance Work Centers.

c. Assist with preparing discrepancy reports required per this NAMPSOP.

10.27.3.8 Logs and Records (Navy)/Maintenance Administration (Marine Corps):

a. Comply with logs and records requirements directed in 5.2 that apply to AGS/ACSW.

b. Perform AGS/ACSW rounds fired count reconciliation between CM ALS and GITR whenever any of the following occur:

(1) Acceptance or transfer of AGS/ACSW and components per 10.27.4.

(2) Issue/turn-in of AGS/ACSW and components per 10.27.5.

(3) Discovery of errors for total rounds fired accumulation via CM ALS or Missing "Zero" Rounds fired count Maintenance Action Form (MAF) or unmatched accumulation with GITR.

(4) After any rounds based maintenance action is performed.

NOTE: All rounds accumulation entries must be completed at the end of each firing day.

10.27.3.9 Ordnance Work Center Supervisors:

a. Ensure work center personnel are fully qualified or satisfactorily progressing in qualifications to perform AGS/ACSW maintenance per 10.1.4.7.

b. Ensure AGS/ACSW are maintained in accordance with OPNAV M-8000.16, COMNAVAIRFORINST 8380.2A, applicable maintenance manuals, and this NAMPSOP.

c. Periodically spot check work in-progress to verify the proficiency of personnel performing AGS/ACSW maintenance.

d. Maintain access to the GITR module of AWIS.

e. Prior to any flight where AGS/ACSW may be fired, ensure rounds remaining will not exceed the specified rounds based inspection interval. Verify rounds fired accumulation in the CM ALS is accurate. Confirm applicable GITR entries are completed and match the CM ALS.

f. At the end of the firing day, ensure GITR rounds fired counts match OOMA.

g. Immediately notify maintenance control of AGS/ACSW hazards and restrict AGS/ACSW from use if any of the following conditions exist:

(1) Total rounds are unknown.

(2) GITR and CM ALS cumulative rounds fired do not match.

(3) Maintenance documentation errors that could result in damage to aircraft or equipment, injury to personnel, or over-firing the weapon or sub-components. Example: OOMA displays TD compliance, but physical inspection of the asset reveals the TD is not incorporated.

10.27.3.10 AGS/ACSW Maintenance Personnel:

a. Strictly comply with the AGS/ACSW maintenance procedures specified in AGS/ACSW maintenance technical manuals and MRCs.

b. Ensure CM ALS is accurate and complete prior to issuing or installing AAS.

10.27.4 Acceptance/Transfer Transactions

10.27.4.1 Definition. Acceptance/Transfer transactions are defined as Supply to Prime Pool, or Inter-Prime Pool, or Aircraft Depot/Aerospace Management And Regeneration Group (AMARG) to Prime Pool transactions.

10.27.4.2 AGS/ACSW will not be physically accepted prior to completion of a CM ALS/GITR records receipt verification per 10.27.4.4.

10.27.4.3 Documentation and monitoring requirements for component usage rate and rounds fired for all AGS/ACSW are listed in Figure 10.27-1.

10.27.4.4 Logs and Records Clerks/ Maintenance Administrator within Intermediate Activities Production Control Work Centers have the responsibility of accomplishing the initial administrative acceptance/transfer of AGS/ACSW. The Logs and Records Clerks/ Maintenance Administrator must comply with the following actions:

a. Verify receipt of CM ALS. If CM ALS is not received, perform recovery procedures per 5.2.3.10.

b. Review CM ALS. Activate all scheduled maintenance that was not previously complied with or verified as completed.

c. Perform TD compliance verification per 10.10.3.4. If unable to verify TD compliance, the AGS/ACSW must be marked NRFI and removed from service until TD compliance is determined.

d. Reconcile CM ALS rounds fired history to ensure that AGS/ACSW life limited components are within allowances. If rounds fired history cannot be reconciled, refer to Figure 10.27-1. Refer to 10.27.6.4 for AGS/ACSW logs and records documentation requirements.

e. Prior to transferring AGS/ACSW, all maintenance related actions and rounds fired entries will be documented as a Miscellaneous History entry in the CM ALS.

10.27.4.5 Ordnance Work Center personnel will receive physical custody of ACSW and perform acceptance inspection per applicable maintenance technical manuals and provide maintenance documentation data to Production Control. All maintenance related actions will be accomplished via MAF/Work Order to include acceptance/transfer inspections. Prior to transfer, the remarks section of GITR will be populated with the reason for transfer.

10.27.4.6 A physical paper copy of CM ALS must accompany all AGS/ACSW transferred to a non-OOMA activity such as Naval Aviation Depot (NADEP) or NAVAIR FST.

10.27.4.7 All AGS received from an aircraft depot or AMARG must be removed from the aircraft and routed to I-level for inspection.

10.27.4.8 All AGS/ACSW must be packaged in accordance with NAVSUP P-700 prior to transfer.

10.27.5 Issue, Receipt, and Turn-In Transactions

10.27.5.1 Issue and Turn-In transactions occur between a Prime Pool and the supported sub-custodian. Prime Pools must verify GITR data for accuracy prior to AGS/ACSW issuance to the O-level. AGS/ACSW and components must not be received from the issuing activity prior to the receiving activity's completion of a CM ALS/GITR records receipt verification.

10.27.5.2 For all optimized NALCOMIS activities the AGS CM ALS and GITR record will be issued to the O-level prior to AGS/ACSW issuance. Neither acceptance/transfer inspections or work order documentation is required.

10.27.5.3 After CM ALS/GITR rounds fired reconciliation is complete, AGS/ACSW may be issued to the receiving activity.

10.27.5.4 Logs and Records Clerks/ Maintenance Administrator within O-level Activities Maintenance Control Centers have the initial responsibility to accomplish Issue and Turn-in transactions of the AGS/ACSW and components. The Logs and Records Clerks/ Maintenance Administrator must complete the following prior to receipt or turn-in of AGS/ACSW:

a. Conduct an OOMA CM ALS and GITR rounds fired count reconciliation to ensure accuracy. Neither acceptance/transfer inspections or work order documentation is required.

b. All AGS/ACSW OOMA CM ALS will be accurate and complete prior to turn-in to the receiving activity.

c. Prior to turn-in of AGS/ACSW, all maintenance related actions and rounds fired entries will be documented as a Miscellaneous History entry in the CM ALS.

10.27.5.5 Ordnance Work Center personnel will remove AGS/ACSW per this NAMPSOP and prepare AGS/ACSW for transfer per applicable maintenance technical manuals and provide maintenance documentation data to Maintenance Control. All maintenance related actions will be accomplished via MAF/Work Order (WO) to include discrepancy MAF/WO to the I-level or D-level activity. Prior to turn-in, the remarks section of GITR will be populated with the reason for turn in.

10.27.5.6 Activities are highly encouraged to utilize the issue and turn in checklist on the CNAP SharePoint (https://cpf.navy.deps.mil/sites/cnap/default.aspx) in the N46 Weapons, documents folder to assist with issue, receipt, and turn-in transactions.

NOTE: 1. Recreating a CM ALS is strictly prohibited without CNAF AAS TYCOM approval.

2. Refer to 5.2.3.10 for CM ALS recovery procedures.

3. Creating of CM ALS will only be accomplished for new production assets, by the I-level. When presented with Manual or Auto create options, Auto create will be selected. When prompted with the message "apply usage to subcomponents," select the "Yes" option. All tasks will be activated at this time.

10.27.6 General Maintenance Requirements

10.27.6.1 Installation and Removal

a. Only Aviation Ordnance personnel are authorized to install or remove AGS and ACSW mounts before flight.

b. All ACSW installed on an aircraft (including spares) must be documented via installation WO. Installed ACSW will also be documented in Block 8 of the Aircraft Inspection and Acceptance Record (OPNAV 4790/141) per 5.1.1.3.e.

c. ACSW will be removed from aircraft (physically and administratively) at the conclusion of the event or firing day to facilitate proper rounds documentation IAW Figure 10.27-1.

d. AGS/ACSW maintenance performed by a transient maintenance crew will be conducted and documented per 13.2.13.1.12.

e. In-flight AGS/ACSW maintenance will be conducted and documented per 13.2.13.1.13.

NOTE: In an expeditionary environment, these tasks may be performed by qualified aircrew.

10.27.6.2 Pre/Post Fire Inspections

a. All ACSW (including spares) must have a pre-fire inspection completed prior to installation on aircraft.

b. All AGS will have a post-fire inspection completed at the end of each firing day, regardless of how many rounds were fired. Ordnance supervisors will contact Naval Munitions Commands (NMC) or Weapons Department for post-fire, rounds fired count reports.

10.27.6.3 Scheduled Maintenance

Scheduled rounds based maintenance actions will be performed per the applicable maintenance manual and Periodic Maintenance Inspection Card (PMIC) intervals.

NOTES: 1. Manual changes or corrections of the CM task is prohibited without CNAF AAS TYCOM authorization.

2. The 10% deviation of 5.1.1.6.b. does not apply to AGS/ACSW. A plus or minus 500 (+/- 500) round deviation is applied to AGS, ACSW, and ACSW mounts rounds based inspection intervals.

10.27.6.4 Logs and Records

Documentation and monitoring requirements for the components usage rate and rounds fired accumulation for all AGS/ACSW are listed in Figure 10.27-1. All rounds accumulation entries will be accomplished at the end of the firing day via a Manual Flight Record (MFR) IAW figure 10.27-1. Additionally, a Miscellaneous History entry will be made to document the quantity of rounds fired.

NOTE: The OOMA/OIMA NALCOMIS data is the authoritative maintenance documentation database, and takes precedence over AWIS

10.27.7 Beyond Capability of Maintenance (BCM) and Defense Reutilization Management Office (DRMO)

10.27.7.1 No AGS/ACSW or other serialized, GITR tracked components are authorized any type of BCM action or DRMO disposition without prior authorization from the CNAF AAS TYCOM.

10.27.7.2 The CNAF AAS TYCOM will direct the activity in possession of the AGS/ACSW which BCM designation to utilize via AWIS Technical Dialog.

10.27.7.3 After TYCOM approval for BCM action or DRMO, the activity must:

a. Complete applicable GITR transactions.

b. Complete applicable OOMA/OIMA NALCOMIS transactions, (assign appropriate BCM action taken code of 1-9, requisition a replacement asset, etc.).

c. Transfer assets to supply or DRMO facility, as appropriate.

10.27.8 Discrepancy Reporting

10.27.8.1 AGS/ACSWs, ACSW Mounts and LASER Aiming Devices (LAD) Discrepancy Reports (DR). All AGS/ACSW, ACSW Mounts and LASER Aiming Devices (LAD) DRs will be submitted per applicable direction of COMNAVAIRFORINST 4790.2 and OPNAV M-8000.16. These include Hazardous Material Report (HMR), Product Quality Deficiency Report (PQDR), Technical Publications Deficiency Report (TPDR), Baseline Trouble Report (BTR), Conventional Ordnance Deficiency Report (CODR), Explosive Event Report (EER), and Explosive Mishap Report (EMR). Activities not required to provide an exhibit may initiate closing action for the DR upon FST/Program Office acknowledgement via Technical Dialog: "Acknowledgement of this deficiency report serves as closing action for the reporting unit's NAMDRP requirements." Activities required to provide exhibits must await direction from the FST/Program office via Technical Dialog and follow the exhibit handling procedures per 10.9.4.5. All DRs are monitored by the program office. Specific reporting criteria for each DR is described below.

10.27.8.2 HMR. An HMR must be submitted per 10.9.3.3 whenever AGS/ACSW are discovered to have critical material deficiencies meeting the conditions of 10.9.3.3.b. HMRs will be submitted via JDRS per 10.9.3.1.

10.27.8.3 PQDR. A PQDR must be reported per 10.9.3.4 whenever deficiencies are found in new or newly reworked (depot overhaul) AGS/ACSW. PQDRs will be submitted via JDRS per 10.9.3.1. Activities must select "Aviation" in the community field, when submitting their reports.

10.27.8.4 TPDR. A TPDR must be submitted per 10.9.3.5 whenever deficiencies are noted in AGS/ACSW technical publications. PQDRs will be submitted via JDRS per 10.9.3.1.

10.27.8.5 BTR. A BTR must be submitted per 10.9.3.6 to correct AGS/ACSW OOMA baseline deficiencies. BTRs will be submitted via JDRS per 10.9.3.1.

10.27.8.6 CODR and EER. A CODR or EER must be submitted for deficiencies meeting the criteria in OPNAV M-8000.16. CODRs and EERs will be submitted using the DRWeb module of AWIS per 10.9.2.5.

10.27.8.7 EMR. An EMR must be submitted for deficiencies meeting the criteria in OPNAV M-8000.16. EMRs will be submitted via the Web Enabled Safety System (WESS) per 10.9.2.5.

10.27.8.8 ACSWs, Lasers and Mounts Deficiency Reports (DR). DRs for ACSWs, ACSW mounts, and LADs will be initiated when a deficiency is discovered during maintenance. DRs for ACSWs, ACSW mounts, and LADs will be submitted using the DRWeb module of AWIS per 10.9.2.5.

10.27.8.9 AGS Deficiency Reporting

10.27.8.10 AGS O-Level Deficiency Reporting procedures:

a. DRs are not required to document unscheduled maintenance discrepancies to facilitate turn-in to I-level, except under the following circumstances:

(1) O-Level induced defects (CODR)

(2) Explosive Event Report (EER) as defined in 10.9.2.5.

(3) Any AGS and component defects affecting the safety of personnel (CODR accompanied by HMR).

b. DRs must be submitted within the timeframes identified in 10.9.3.

c. All other AGS discrepancies must be documented via WO and turned into I-Level for repair. Figure 10.27-2 must be completed and accompany the WO to the I-level.

10.27.8.11 AGS I-Level Deficiency Reporting procedures:

a. I-level activities will submit CODRs upon deficiency discovery per 10.9.2.5.

b. DRs must include ammunition identification data, if ammunition was listed on Figure 10.27-2 from O-Level.

c. DR submission timeframes of 10.9 are not applicable for I-level activities for AGS DRs.

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
GAU-21 .50 CAL	3528901070			**X**			**X**	**X**	**X**	**X**	**X**	**1, 2, 4**
XM-218 .50 CAL	11691500						**X**					**1, 2, 4**
GAU-17/A 7.62MM	3392AS400								**X**	**X**	**X**	**1, 2, 4**
M240D 7.62MM	12977100							**X**	**X**	**X**	**X**	**1, 2, 4**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ACSW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 1): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
25mm Gun Pak W/Gun GAK-14	1395AS101		X									**1, 3, 4**
GAU-12 25mm Gun Subassembly	1395AS382 1395AS1102		X									**1, 4**
25mm Gun Pak Structure Assembly	75A732506		X									**4**
Pneumatic Drive Unit	1395AS1016-3		X									**4**
Ammunition Crossover Chutes	1395AS399		X									**4, 5**
25mm Improved Blast Deflector	75A732801-1007		X									**4**
25mm AHS GFK 11	1395AS102		X									**1, 3, 4**
AHS Pak Structure Assembly	75A732707		X									**4**
Electronic Control Unit	1395AS1066		X									**N/A**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ACSW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 2): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
A/A49E-27 20MM Aircraft Gun Mount Adapter	3392AS1511								X			**1, 3, 4**
Ammunition Can Assy	3392AS1678-1								X			**1**
Recoil Adapter 20MM	537AS300								X			**7**
Blast Diffuser	537AS595								X			**8**
LFS Loader, Merger Assy	500499-1	X										**1**
LFS Declutching Feeder	500799-1/2	X										**1**
LFS Magazine Assy	500299-1	X										**1**
LFS Merger Unit Assy	500599-1	X										**1**
LFS Flexible Chute Assy	500639-2 500640-1	X										**1**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ACSW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 3): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
M197 20MM	11838579/ 12011591	**X**							**X**			**1, 3, 4**
Declutch Feeder M89E1	12007300								**X**			**1, 4**
A/A49A-2 20MM Gun System (E-F)	10052600 10052687					**X**						**1, 3, 4**
20mm M61A1 Automatic Cannon	7791641 12011590 8227553-10				**X**							**1, 4**
20mm M61A2 Automatic Cannon	12913464 12913464-1 8227553-30				**X**	**X**						**1, 4**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 4): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
Feeder, Auto Gun	209F334 (A-F)				X	X						4
Hydraulic Drive Unit (F/A-18)	MC13862-3 CMF3-100-1A				X	X						N/A
Exit Unit Assy	209F537 (A-D) 10052595 (E-F)				X	X						4
Transfer Unit Assy	217F491 (A-D) 10052602 (E-F)				X	X						4
Entrance Unit Assy	209F487 (A-D) 10052594 (E-F)				X	X						4
Ammunition Drum	1967B681 (A-D) 10052627 (E-F)				X	X						4
Unload/Drive Unit	209F335 (A-D) 10052603 (E-F)				X	X						4

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 5): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
ADU-907/A GAU-21 Right-Hand Medium Pintle Head Adapter	3638942010			**X**								**1, 2, 6**
ADU-907/A GAU-21 Right-Hand Medium Window Pintle Connection	3638941010			**X**								**1,2**
ADU-908/A GAU-21 Left-Hand Medium Pintle Head Adapter	3638959010			**X**								**1, 2, 6**
ADU-908/A GAU-21 Left-Hand Medium Window Pintle Connection	3638944010			**X**								**1, 2**
ADU-917/A Left-Hand External Store	3392AS164										**X**	**1**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 6): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
ADU-918/A Right-Hand External Store	3392AS165										**X**	**1**
A/A49E-17 M240 Mount Assy	3392AS957								**X**			**1, 2, 4**
A/A49E-17 M240 Left-Hand Swing Arm Assy	3392AS691								**X**			**1, 2, 4**
A/A49E-17 M240 Right-Hand Swing Arm Assy	3392AS683								**X**			**1, 2, 4**
A/A49E-18 GAU-21 Modified Cradle	3392AS1365								**X**			**1, 2, 4, 6**
A/A49E-18 GAU-21 Left-Hand Adapter Assy	3392AS723								**X**			**1**
A/A49E-18 GAU-21 Right-Hand Adapter Assy	3392AS724								**X**			**1**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 7): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
A/A49E-19 M240 Adapter Assy	3392AS778							**X**				**1**
A/A49E-19 GAU-21 Adapter Assy	3392AS899							**X**				**1**
A/A49E-20 GAU-21 Modified Cradle	3392AS1365							**X**				**1, 2, 6**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 8): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
A/A49E-23 GAU-21 Mount Assy	3392AS1340										**X**	**1, 2, 6**
A/A49E-28 GAU-21 Medium Ramp Pintle	3638951010			**X**			**X**					**1, 2, 6**
A/A49E-33/A M240 Mount Assy	3392AS200										**X**	**1**
A/A49E-34 GAU-17 Mount Assy	3392AS267										**X**	**1, 2**
ADU-977/A Gun Adapter	3392AS706									**X**		**1**
A/A49E-39 M240 Mount	3392AS715									**X**		**1, 2, 4**
A/A49E-40 GAU-21 Mount	3392AS624									**X**		**1, 2, 4**
A/A49E-44 Helicopter Armament Subsystem, Caliber .50 Machine Gun	3392AS2959						**X**					**1**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ASCW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.27-1 (Page 9): AGS / ACSW Applicability and Reporting

SYSTEM	P/N	AH-1	AV-8B	CH-53	F/A-18A-D	F/A-18 E-F	MH-53	MH-60R	MH-60S	MV-22	UH-1Y	NOTES
A/A49E-45 Helicopter Armament Subsystem, Caliber .50 Machine Gun	3392AS2960						**X**					**1**
GFU-28/A AMMUNITION LOADER ASSEMBLY	3392AS3293								**X**			**1**
ADU-1039/A GUN MOUNTING ADAPTER AIRCRAFT LH	3392AS3294								**X**			**1, 2, 4**
ADU-1040/A GUN MOUNTING ADAPTER AIRCRAFT RH	3392AS3295								**X**			**1, 2, 4**

NOTES:

1. Will be reported in GITR as a serialized/tracked item by Aviation Ordnance personnel.
2. ACSW and ACSW mount CM ALS will be updated at the end of each firing day at the system level.
3. AGS CM ALS will be updated at the end of each firing day at the aircraft BUNO level.
4. If total rounds fired are in question, notify CNAF AAS TYCOM via Technical Dialog.
5. The baseline to be used will be GITR total rounds count on the Ammunition Handling Subsystem (AHS) the chute is attached to. When chute is not attached to an AHS and rounds count is unknown, the baseline will be 6,000 rounds.
6. If total rounds fired are in question or unknown, perform 25,000 round inspection and establish baseline at next highest 25,000 round interval for all required records.
7. If rounds count is unknown, penalize 50,000 rounds.
8. When rounds count is unknown, penalize 10,000 rounds.

Figure 10.38-1 (Page 10): AGS / ACSW Applicability and Reporting

CODR DATA for I-level Reporting

Unit: _____ **Date:** _____

MCN/JCN: _____

AGS Serial Number: _____ **BUNO:** _____

1. ROUNDS COUNT ON CANNON OR GUN SYSTEM: _____
2. LAST INSPECTION OF CANNON OR GUN SYSTEM: _____
3. PART NUMBER OF DAMAGED COMPONENT: _____

4. DESCRIPTION OF DAMAGE TO COMPONENT:

_____

_____

_____

_____

5. AIRCRAFT ANGLE OF ATTACK: _____
6. AIRCRAFT AIR SPEED: _____
7. AMMUNITION NALC AND NOMENCLATURE: _____
8. AMMUNITION LOT NUMBER: _____
9. ROUNDS LOADED QTY: _____

_____ _____

IMA CDI Signature / Date: OMA CDI Signature / Date:

_____ _____

IMA CDI Print / Date: OMA CDI Print / Date:

Figure 10.27-2 OMA CODR Data for IMA Reporting