

**BY ORDER OF THE COMMANDER
SPACE LAUNCH DELTA 45**

**SPACE LAUNCH DELTA 45
INSTRUCTION 13-613**



22 MARCH 2023

***Nuclear, Space, Missile, Command and
Control***

EASTERN RANGE SCHEDULING

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RELEASABILITY: There are no releasability restrictions on this publication

OPR: 1ROPS/DOS

Certified by: 1ROPS/CC
(Lt Col Colin D. Mims)

Supersedes: 45SWI13-206, 5 June 2014

Pages: 29

This instruction implements the Air Force Space Command Instruction 13-613 and establishes policies, procedures, and responsibilities for scheduling operations on the Space Launch Delta 45 (SLD 45) Eastern Range (ER). It defines the processes by which SLD 45 resources are committed to support range operations and maintenance required to maintain an executable launch schedule as defined by AFSPCI 13-613. These processes allow for the scheduling of ER assets in support of space launch, ballistic missile launch, surveillance, aircraft test flights and other operations requiring ER assets. The provisions contained in this instruction apply to all personnel and agencies requiring the use of ER controlled range resources and the providers of those resources. Refer recommended changes and questions about this instruction to 1 ROPS/DOS, 10400 Phillips Parkway (CCSFS), Patrick SFB FL 32925-2618 using AF Form 847, *Recommendation for Change of Publications*. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

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SUMMARY OF CHANGES

This instruction has been revised and should be reviewed in its entirety. The revisions addressed the minimum allowable timelines to submit launch operations requests, clarified launch “PLANNING” date requirements, incorporated changes to SPFCI 13-613 (Launch Forecasting, Planning and Scheduling Procedures), detailed process for submission of launch requests on federal holidays and established a stand-down period of processing launch and/or major operations requests during natural/man-made disasters. AFSO21 initiatives have been incorporated. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System Records Distribution Schedule located at <https://www.my.af.mil/gcss-af61a/afirms/afirms/>.

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Chapter 1

GENERAL

1.1. Scheduling Mission. The 1st Range Operations Squadron's Scheduling Section (1 ROPS/DOS) is the single scheduling authority for all launch, launch associated tests and internal range activities requiring ER and SLD 45 support resources excluding base support and SLD 45 Safety Office functions. Their mission objective is to ensure that all launches, operations, and associated tests are fully supported on the dates and times requested by the range customer, or as close to the requested date and time as possible. DOS will consider mission priorities, range capabilities, economy of operations, funding availability and established safety and security criteria when processing and prioritizing authorized schedule requests.

1.2. Operating Policies.

1.2.1. Support commitment. Range resources are committed for support upon request and in accordance with applicable Operations Directives (ODs), internal test directives and technical support requirements. Resources are allocated so that the maximum number of operational requirements can be supported safely and efficiently. Range resources include (but are not limited to) personnel, instrumentation, airspace, radio frequencies, support facilities, commodity support, and base support services.

1.2.2. DOS operates primarily on a first come-first served basis, with certain exceptions. Launch and launch related milestone requests are processed in the order in which they are received. Other support requests (including internal range maintenance and testing) are scheduled based on range priorities and resource availability. All requests for operational support using SLD 45 resources will be requested through and scheduled by DOS.

1.2.3. Authorized Schedulers. DOS will only accept operational support requests (scheduling requests) from authorized scheduling representatives who have been formally designated in writing by their unit commanders (or equivalent commercial project directors) and submitted to DOS (see [Attachment 2](#) for example). The designated individuals will be authorized to request launch/pre-launch operations and obligate the expenditure of program funds. They must have firsthand knowledge of their program's scheduling requirements and be familiar with Eastern Range operations. Also, they must be fully entrusted with decision-making scheduling authority for their program. Authorized scheduler letters will be updated annually or when personnel changes occur. Newly designated schedulers are highly encouraged to meet with DOS prior to scheduling operations on the ER for a scheduling process orientation.

1.2.4. Scheduling Conflicts. Scheduling conflicts that arise during operations will be up-channeled to the on-console Range Operations Commander (ROC), Program Support Manager (PSM) or DOS as appropriate. All other scheduling issues or conflicts will be resolved by DOS through direct negotiation with the affected parties (and/or support agencies) or elevation through the chain of command (after DOS involvement) when appropriate.

1.2.5. Scheduling Priorities. DOS serves as SLD 45's impartial scheduling broker via the philosophy that launch operations, major milestone/critical path test operations and associated pre-launch checkouts have the highest priority and take precedence over re-occurring/non-launch institutional test operations. Priorities are listed numerically from section 1.2.5.1 (highest priority) to section 1.2.5.4 (lowest priority). Priorities are as follows:

1.2.5.1. SLD 45 approved launch dates will be given the highest priority, followed by other range activities.

1.2.5.2. Corrective maintenance to restore an ER resource to a Fully Mission Capable (FMC) condition for an approved launch, pre-launch or other critical path operation will take precedence over other non-critical instrumentation requirements.

1.2.5.2.1. CLSRB coordinated and approved maintenance downtimes will have the same priority as an approved launch date and will require SLD 45/CV concurrence to be rescheduled.

1.2.5.2.2. Planned Depot Maintenance (PDM) and range modernization operations may be rescheduled by DOS if an employed asset is required to support an approved launch date and/or a critical milestone in support of an approved launch date.

1.2.5.3. Critical milestone pre-launch certification/calibration/test operations that must be successfully completed on the dates requested to meet an approved launch date shall have precedence over a less time sensitive operation which, if scheduled on another date or time, would not result in a launch date change.

1.2.5.4. Scheduling of mission console training operations to fulfill SLD 45 crew mission readiness certification requirements for the next scheduled launch will have priority over the scheduling of recurring/upgrade training and/or familiarization/proficiency simulations.

1.2.6. Additional factors such as inter-range support requirements, worldwide communications, national urgency, limited orbital parameters, space or scientific achievement, DoD exercises and critical maintenance activities will be strongly considered when determining scheduling priorities and can drive an increased priority for a request. Personnel crew rest requirements will be considered when scheduling any activity. In the event of unresolved scheduling conflicts excluding launches, DOS will assign priorities, with 1 ROPS/CC concurrence, when placing operations on the range operations schedule. Receipt of launch date requests to DOS establishes precedence for launch date queue consideration should previously requested launch dates become available.

1.2.7. L-1-day checks contained in OD-12 (ER Instrumentation Set-up and Checkout) are normally scheduled during standard duty hours on the last workday prior to each launch. These checks are assigned the same priority as the associated launch operation. It is range policy not to schedule L-1 day checks after normal duty hours or on weekends or holidays. After L-1 checks are completed, the range will be in a "Locked Down for Launch" status that prevents any change in configuration. "Locked Down" configuration status can only be waived by the 1 ROPS/CC or DO.

1.2.8. Customers are encouraged to submit all schedule requirements by noon Thursday a minimum of two weeks in advance of the requested date. Acceptance of requests after this cut-off date will be considered based on criticality, range priority, resource availability and other relevant factors.

1.2.9. To maximize range resource utilization efficiency and minimize non-recoverable support periods, the scheduling of requirements on a non-interference basis (NIB) is discouraged.

1.2.10. Due to limited range resource availability, the practice of requesting additional time or “back-up dates” in anticipation that a problem may develop when conducting an operation is prohibited. When unanticipated problems do occur, a real-time request for an extension should be submitted to DOS. The extension request will be evaluated on a real-time situational basis.

1.3. Days and Hours of Operation.

1.3.1. SLD 45 operates the ER based on a standard Monday thru Friday, 40-hour work week. Operational requests for support by Delta and/or contractor personnel for overtime work to be performed outside of normal duty hours or on weekends and/or federal holidays will not normally be approved. Exceptions to this policy will be coordinated through the SLD 45 Program Lead and/or the 1 ROPS Program Support Manager (PSM), through DOS and then forwarded to 1 ROPS/CC or DO for adjudication. SLD 45/CV will have final approval authority. See paragraphs **1.4 and 1.5** of this instruction for a description of overtime rules, responsibilities, and exceptions.

1.3.2. DOS is operated Monday-Friday (0800L-1600L) and is closed on weekends and federal holidays. Under most circumstances, scheduling support will be provided during all launch countdown operations and other specifically designated major operations occurring outside of normal duty hours. Staffing will normally be for the entire range minus count prior to the planned T-0 (unless directed otherwise) and will remain through completion of the operation and post-operation activities.

1.3.3. Range contractor instrumentation support is available 0730L-1615L, Monday thru Friday. Set-up and post-op time outside of this window is considered overtime.

1.4. Overtime Operations.

1.4.1. The 1 ROPS/CC in coordination with the appropriate PSM and Budget Analyst normally serves as the reimbursable Job Order Number (JON) approval authority for scheduling support requests outside of normal duty hours. The PSM and Budget Analyst are responsible for confirming that the requesting range users (both commercial and government) have sufficient funding available to cover civilian and contractor overtime expenses. Overtime support will be dependent upon PSM coordination and confirmation of resource and personnel availability.

1.4.2. 1 ROPS/CC serves as the overtime approval authority for all non-reimbursable JON (institutional/direct funds) overtime charges. These requests will be routed through the 1 ROPS Technical Director prior to requesting approval from 1 ROPS/CC. Users are required to notify DOS as far in advance as possible (and NLT 48 hours prior) when requesting overtime operations.

1.5. After Hours Range Support. Requests for scheduling support after normal range operating hours will be coordinated through DOS by contacting the stand-by Range Scheduling Duty Officer (RSDO) at 321-759-6943.

1.5.1. Overtime operations extensions (operations that are in progress during non-duty hours) may be granted if instrumentation and personnel are available and crew rest requirements will not be exceeded.

1.6. Hazardous Operations. Hazardous operations will be scheduled in compliance with Eastern/Western Range EWR 127-1, *Range Safety Requirements* and AFSPCMAN 91-710, *Range Safety User Requirements* unless a waiver is obtained. In addition, the hazardous operations must be approved by SLD 45/SE. Compliance requirements apply to launches, pre-launch and countdown operations, operation of high-pressure systems, handling of propellants, radioactive source handling, corrosion control maintenance and other activities. Radioactive source handling by active duty/government employees must be approved by 45 AMDS/SGPB.

1.7. Operational Resource Certification. Under normal circumstances, range instrumentation, communications, and data systems (both hardware and software) will be committed for use by ER customers only after these systems have been operationally certified and accepted by the Delta.

1.8. Scheduling Office Contact Telephone Numbers.

- 1.8.1. Eastern Range Scheduling Manager: 321-853-2012 / DSN 467-2012
- 1.8.2. Forecast Scheduling Manager: 321-853-5947 / DSN 467-5947
- 1.8.3. Realtime Scheduling Manager: 321-853-2013 / DSN 467-2013
- 1.8.4. Real-Time Scheduling: 321-853-5941/2/3/4 / DSN 467-5941/2/3/4
- 1.8.5. Forecast Scheduling: 321-853-2031 / DSN 467-2031
- 1.8.6. Special Use Airspace Manager: 321-853-5936 / DSN 467-5936

1.9. Program Support Manager. The Program Management Section (1 ROPS/DOF) is the range customer's primary point of contact for document generation activities to include obtaining, coordinating, and defining customer and range safety operational requirements and OD development. The PSM is responsible for all Universal Documentation System (UDS) actions and will coordinate supporting range(s) and base agency support as documented in UDS prior to the mission execution phase. The PSM also advises DOS, 1 ROPS range operators and SLD 45 range contractor personnel on program requirements.

1.10. Customer Contact Policy. Customer/Test Conductor (TC) point of contact telephone number(s) for both duty and non-duty hours are required for each operation. After hours point(s) of contact must be directly connected to each scheduled operation, must have "decision-making authority" and must be reachable by phone for the entire duration of the operation. Operations will not be scheduled without reachable/positive-contact customer points of contact.

1.11. Universal Documentation System. ER missions are conducted utilizing the UDS, which was implemented by the Range Commander's Council as the national standard for documenting range operational requirements. DoDD 3200.11 directs the use of UDS; it incorporates program and safety requirements into a single tasking document known as the Operations Directive (OD). The OD defines operational requirements and is used by DOS to schedule and task operational systems and base support agencies. It also provides the basis for charging customers for the support provided by the ER. The UDS is divided into three levels:

Chapter 2

RANGE SCHEDULING

2.1. SLD 45 Range Scheduling. 1 ROPS/DOS operates the Real-Time Scheduling Element (schedules/supports operations from current date to +9 days out), the Advanced Forecast Scheduling Element (schedules launches, launch campaign milestones and operations +10 days and out) and the Airspace Management Element.

2.2. Current Launch Schedule Review Board (CLSRB). 1 ROPS/DOS is the SLD 45 OPR for CLSRB meetings. The CLSRB is chaired by the SSC/S3 and is the governing body for launch scheduling and approval of the 24-month Executable Launch Schedule (ELS). The Delta launch schedule is briefed to CLSRB board members, Space Force Launch Service Providers and invited range users.

2.2.1. CLSRB Launch Slot Allocations. The CLSRB determines an executable plan for conducting space launch operations and serves as the approval authority for launch slot allocation of Space Force Space Launch Complexes. The Planning Launch Schedule (PLS) is an agreed-to launch schedule plan for missions from zero to 48 months in the future. When an official launch date changes within the first 24 months (in ELS period), the SLD 45/CC has the approval authority to commit ER resources to a modified supportable launch date for a user, provided all customers (launch vehicle, payload, maintenance, etc.) concur. When customers do not concur and issues cannot be resolved by the Delta through the Range Hub process, SSC/S3 may review the issue and attempt to resolve any conflicts. If conflicts still cannot be resolved, an out-of-cycle CLSRB may be convened to adjudicate the disagreement. Changes to the launch forecast that are more than 24 months from an approved launch date will be coordinated by DOS.

2.3. StarGate scheduling system. The StarGate scheduling system is the “Next Gen” Range Scheduling System operated and maintained by DOS. Upon final DISA certification, it will be accessible to all ER Launch Service Providers, users, and customers. It will deliver “real-time” 24/7/365 access to the range schedule, as well as allow the user to schedule their own operation and tailor the selected instrumentation and assets support required for their scheduled operation.

2.4. Real-Time Element. The Real-Time Scheduling Element is responsible for performing all scheduling and de-confliction actions during the current date +9 days' time period. Changes or additions to the schedule will be accepted based on criticality, range priorities, resource availability (instrumentation and personnel) and any other factors DOS considers necessary to accomplish the mission. New requests for range support will not preempt previously scheduled range activities unless mission priority dictates or there is full agreement between all parties concerned and the agreement is approved by DOS. Requests must be received NLT 1200L the day prior to the operation's start date. In addition, the requestor must follow up the request with a phone call to ensure DOS received the request and to confirm the request is supportable and will be added to the following day's schedule. Realtime Scheduling is also responsible for developing and publishing Launch Hazard Area and Airspace Closure maps and administering the SLD 45 Space Launch Intrusion Prevention Plan in support of all launches.

2.5. Forecast Element. The Forecast Scheduling Element is responsible for performing all scheduling and de-confliction actions beginning +10 days from current date to include the processing, de-confliction, and securing SLD leadership approval of customer-submitted launch and launch campaign milestone requests. The Forecast Element is also responsible for compiling and maintaining the Eastern Range Consolidated Activity Forecast, the Advanced Forecast Schedule and the Delta Launch Manifest for the 1 ROPS/CC. All customer requirements should be submitted no later than 2 weeks prior to the needed date (launch and launch milestone requests are required earlier). Late requests (received after the 2-week deadline point) will only be accepted when there are no conflicts during the requested time frame and the request is supportable.

2.5.1. Arrangements to receive paper or electronic copies of the Eastern Range Consolidated Activity Forecast can also be made by contacting the DOS Forecast Scheduling Element Supervisor at (321) 853-5947 directly.

2.6. Airspace Element. The Airspace Scheduling Element is responsible for the scheduling and de-confliction of restricted/Special Use Airspace requirements in support of launch operations and coordinating airspace requirements including (but not limited to) Notice to Airman/Notice to Mariners (NOTAMS/NOTMARS), Prior Permission Required (PPR) requests, Launch Hazard Area notifications, Unmanned Aircraft System operations, laser operations and other associated mission areas. Refer to SLD45I 13-201 *Eastern Range Airspace Management Procedures* for more detailed information and airspace requirements for ER customers.

2.7. Range Scheduling Meetings. DOS hosts two re-occurring weekly scheduling meetings to allow ER users to participate in the planning and negotiation for allocation of ER resources and to produce a conflict-free and precise launch operations schedule. All agencies requesting or providing support should be represented at these meetings. Conflicts will be identified, and resolution options will be discussed and approved. Users requesting support which potentially displaces previously scheduled operations will attempt coordination with the existing user for alternative support solutions. DOS will review negotiated compromises for ER supportability and approve acceptable requests.

2.7.1. The DOS Forecast Element chairs the Launch Planning and Status Meeting for the purpose of discussing the launch schedule, operational issues, maintenance and range modernization activities and any other issues that affect range users and providers. A free and open discussion of issues is promoted. Range user representatives and range resource providers should make every effort to attend this meeting to obtain knowledge of forecasted resource requirements, scheduling changes, and to provide insight into their program's status and requirements. Meetings are normally held each Monday (federal holidays excluded) at the Morrell Operations Center (MOC) room 106 at 0930L. Telecom capability is available for those who cannot attend in person.

2.7.2. The DOS Real-Time Element chairs the Range Instrumentation Scheduling Meeting for the purpose of finalizing all range operations and instrumentation support requirements for the following week's range schedule. This critical meeting also performs a "quality check" review of the following week's range operations schedule and identifies any conflicts or operational/scheduling discrepancies. All agencies requesting support or tasked to provide support are required to attend. Final conflict resolution is usually implemented at this time. Meetings are normally held each Thursday, (federal holidays excluded) at the Morrell Operations Center (MOC) room 152 at 0900L. Participants include range instrumentation

super system representatives (command, radar, communications, telemetry, optics, computer ops, timing, etc.), section managers, range contractors/engineers, PSMs, Launch Service Provider authorized program schedulers and/or Range Coordinators, and other agencies. If any tasked agency cannot attend the meeting, they must either call into the meeting or download the weekly instrumentation schedule from the StarGate scheduling system and de-conflict the following week's scheduled operations against their instrumentation areas to ensure there are no unsupportable resource requirements or scheduling conflicts. They are then required to contact DOS by 1600L the same day (Thursday) and concur or identify their concerns with the following week's schedule.

Chapter 3

RANGE SCHEDULING PROCESS

3.1. ER Scheduling Process. ER operations schedules will be generated based on range user mandatory requirements and will fulfill less-than-mandatory requirements with remaining resources, taking into consideration national priorities, requested launch dates and the efficient and economical use of range assets. The following paragraphs describe the range scheduling process in greater detail.

3.1.1. JON Information Requirements. All schedule requests must include valid JON information as well as other pertinent details to facilitate coordination and scheduling of resources. Requests will not normally be accepted without valid JONs.

3.1.2. SLD 45/XP is the Delta's initial point of contact for new programs. Assistance in establishing new customer funded JONs can be obtained from SLD 45/XP as required. The practice of charging internal range JONs (institutional/direct funds) shall be avoided. Customer JONs will be charged when range support is provided.

3.2. Launch Scheduling Requirements. DOS will process Requested Launch Opportunity (RLO) requests to ensure all range and safety requirements can be supported. Requests can be made via the SLD 45 Form 2050 (Launch Operation Scheduling Request) or a company letterhead equivalent and should be received by DOS NLT 60 days prior to the requested launch date. The request must contain the launch date, UNCLASSIFIED launch window/period, expected launch time and valid JON. The request must also include a list of all major milestones, the dates and instrumentation requirements for these milestones, and identify a 24 or 48 hour recycle opportunity (if required). For missions that require additional recycle opportunities (inter-planetary, ISS or other unique requirements), the customer should notify DOS as soon as possible so they can secure approval and protect those opportunities when de-conflicting the SLD 45 launch manifest. The primary method to deliver requests to DOS is via e-mail at 45ransschd@us.af.mil. Other acceptable methods to deliver requests to DOS include U.S. mail, e-mail, or hand delivered. Verbal and/or telephone requests to DOS for support will require an e-mail confirmation. All requests sent by e-mail should be confirmed by the requester via telephone within 15 minutes of transmission. For launch requests that have not been approved by the CLSRB process, an SLD 45 Form 2010 (Launch Forecast Request) requesting the RLO date with all applicable information should be submitted to DOS as soon as it is known, and NLT 60 days prior to the requested launch date. Final approval is contingent upon receipt of the required form(s) with the original signature. Approved launches and associated major milestone/critical path activities already on the schedule will have priority over a new launch request unless otherwise coordinated and approved. It is range policy that only one launch date can be requested and processed at a time, therefore multiple launch date requests will not be accepted. Range users may submit changes to their initial launch date requests to DOS using updated SLD 45 forms, a signed and dated request, a signed and dated memorandum or company letterhead equivalent. Electronic signatures on all methods of change requests are acceptable.

3.2.1. Launch Date Changes. Requests for changes to the SLD 45 Launch Manifest must be coordinated through DOS to determine availability of range resources to accommodate the proposed date change. In evaluating the request, DOS will consider possible impacts to critical path pre-launch operations required by other users to meet their currently scheduled launch date(s). Submission of formal written change requests to DOS is required with final approval authority contingent upon receipt of signed request. When customer change requests are submitted, it is range policy that the currently approved launch date is relinquished. The launch will be removed from the schedule and the relinquished date becomes immediately available to other customers. The mission is then placed into a “Pending” status until the new launch date request has been processed, de-conflicted, coordinated and approved. DOS recommendation for acceptance will be based on sufficient range turnaround allowances for instrumentation support resources to transition from the nominal T-Zero time of one mission type to the nominal T-Zero time of a following mission type (see [para 3.11](#)). In addition, if the launch date change meets any of the criteria outlined in AFSPCI 13-613, Attachment 1 (Significant Scheduling Actions), DOS must coordinate the request with SSC/S3 prior to approving the request.

3.2.2. When launch date changes occur, range scheduling activities become labor intensive due to the necessary rescheduling of associated launch support operations. Some of these rescheduling actions can cause significant impact to other range customers. Therefore, users are strongly encouraged to relinquish launch dates as soon as it is determined that the currently approved date cannot be achieved. In addition, it is highly recommended that the rescheduling of pre-launch activities be delayed until a new achievable launch date is determined. If there is an extended scheduling delay, it is recommended that associated launch operations be removed from the schedule entirely to free up range resources for other customers.

3.2.3. Launch Opportunities. A range user’s requested launch date is scheduled as a single, officially approved date with the understanding that if the launch cannot be completed on the approved (first attempt) date, range resources will be de-conflicted for a second launch attempt (usually on the following day). Launch vehicles that require more than 24 hours to recycle may request a 48-hour recycle (second attempt) on their initial launch request. Due to limited range resources, range users will not normally be pre-approved for more than one 24 or 48-hour recycle opportunity on their launch request. Following are some additional parameters:

3.2.3.1. If a range user requests a launch date that would allow them only one launch attempt prior to a first attempt date for another previously approved user, the requester will be informed that only one launch attempt is available. If the range customer does not agree to this condition, DOS will present alternative dates where two consecutive opportunities can be provided. In cases where the customer accepts a single launch opportunity and is not successful on their launch attempt, they must agree to move to a later date that is open and supportable by the range.

3.2.3.2. If a range user desires to submit a launch or operation request based upon the expectation that a previously approved range user will not require a second day of opportunity, they must agree to move to alternate dates if the previously scheduled user elects to use a second attempt day. Any range user wishing to advance ahead of, insert themselves between or propose minimum turnaround times ahead or behind a previously approved launch date shall be required to fund a Range Capability Support Assessment (RCSA) to determine the supportability of the requested scenario and to identify any

operational constraints or schedule adjustments required to execute the scenario. Upon receiving a supportable RCSA determination, DOS will ensure mutual agreement is obtained from all impacted parties prior to approving the schedule change.

3.2.3.3. Crew Rest. For advance planning purposes, a 10-hour uninterrupted period is required to maximize crew rest following an in-count launch scrub. In addition, there are other crew rest constraints that DOS must assess when evaluating launch operations support scenarios (such as maximum days worked consecutively, maximum hours worked in one day, maximum hours worked in a seven-day period, number of consecutive scrub/reschedules, etc.). Prior approval is required from the SLD 45 Chief of Safety for requests that will result in waiving SLD 45 crew rest guidelines.

3.3. Launch Schedule Conflict Resolution.

3.3.1. Inter-range scheduling conflicts will be resolved in accordance with this instruction.

3.3.2. SLD 45 launch scheduling conflicts will be resolved in accordance with SPFCI13-613 (Launch Forecasting, Planning, and Scheduling Procedures) and this instruction.

3.3.3. Range users requesting launch dates in conflict with other launch dates or scheduled maintenance may negotiate support accommodations with an existing operation provided mutual agreement is obtained from the parties impacted and ER capabilities can support the change. When negotiation between users is not possible, DOS will offer alternative options (if available). If proposed solutions are not acceptable to the involved parties, DOS will inform the user the conflicting request is rejected.

3.4. ER Launch Approval Process. For most launch operations, the CLSRB process establishes the Executable Launch Schedule (ELS) on the ER. The SLD 45/CC is the final approval authority for all ER launches. DOS processes initial (and rescheduled) launch requests by de-conflicting and coordinating requirements with supporting agencies (including other ranges) and previously scheduled users (if impacted by the new request). Once support agency concurrence is received and all supportable critical path operation dates are de-conflicted, DOS will forward the “Shark Sheet” for SLD 45 leadership concur/non-concur and approval/disapproval action. DOS will advise the designated customer POC of launch request status and disposition. (Note: SLD 45/CC has the authority to amend or rescind an approved Shark Sheet at any time). Agencies requiring specific notification of schedule changes should furnish their requirements to DOS. Notifications of schedule changes will be made as soon as possible. Rescheduling of a launch operation which advances the launch date and time by more than 12 hours from the originally scheduled date and time will be coordinated by DOS with Launch Safety Analysis (SLD 45/SEL) prior to approval for adequate pre-mission safety data processing time.

3.4.1. An “Approved” launch date triggers automatic pre-launch range activities (mission meetings, NOTAM/NOTMAR requests, range reconfiguration, Space Launch Intrusion Prevention Plan procedures, etc) that are executed by SLD 45 and the contractor. The SLD 45/CC has the authority to remove unattainable launch dates from the schedule if reasonable doubt exists that the launch service provider can achieve the scheduled launch date. The SLD 45/CC also has the authority to downgrade the launch service provider from “Approved” to “Planning” status to prevent SLD 45 from expending manpower, resources and finances in support of an unattainable launch date. The launch service provider may re-submit a launch request for coordination per [paragraph 3.4](#) when an achievable launch date is determined.

(Note: a “Planning” date is not an “Approved” launch date. It does not appear on the ER Consolidated Activity Forecast and can be “bumped” by any required operation associated with an “Approved” launch campaign to avoid a delay to the “Approved” program’s launch attempt). Also, to prevent a situation where the SLD 45 Range Contractor would not have enough time to execute all the processes necessary to support a successful launch attempt, if a mission is still in “Planning” status at 90 days prior to the Target Launch Date (TLD), the SLD 45/CC has the authority to direct DOS to change the mission status from “Planning” to “Indefinite” until the launch provider submits a revised, supportable launch date.

3.4.2. Range users requesting to launch on federal holidays, a day that would fall within a standard three-day holiday weekend, or on an SLD 45 designated stand down day (e.g. Safety Stand Down Days, the Space Force 10-Miler, etc.) must provide written justification to DOS and obtain approval from the SLD 45/CC, but this approval authority may be delegated down to the 1 ROPS/CC.

3.4.3. In the event of an approaching tropical storm, hurricane, or other natural/man-made disaster that could potentially (or does) result in a base closure or evacuation order, the Eastern Range Scheduling Office may be forced to stand down operations. Scheduling operations may be conducted virtually on an as available basis. During these events, scheduling requests may not be accepted or processed, and all operations on the Eastern Range will be placed in TBD status and rescheduled after SLD 45/CC has declared “All Clear”.

3.5. Associated/Related and Shadow Operations Scheduling. Any associated, related and/or shadow operation which will run concurrently with a specified primary launch operation will not be scheduled unless prior written approval is obtained from the appropriate 1 ROPS authority and the primary launch program’s project office. It is the associated operation’s responsibility to obtain approval directly from the launch customer project office. Range users desiring to execute this type of operation must present written approval to the 1 ROPS/DOF PSM allowing sufficient time to coordinate and schedule the requirement.

3.5.1. Associated/Related Operations Support. Associated/related operations are defined as any land, sea and/or air operation that is scheduled on a non-interference basis with a ballistic, space launch or aeronautical operation. The primary range user of the ballistic, space launch or aeronautical operation has no direct responsibility for the associated/related operation. If a launch anomaly occurs, the associated operation is responsible for controlling and submitting all requested data to the primary range user. It will be returned when the primary range user releases the data.

3.5.2. Shadow Operations Support. Shadow operations are defined as operations of range equipment, typically (but not limited to) new equipment being developed prior to delivery to SLD 45. It includes any activity to capture, record or distribute launch vehicle, payload or ground-based instrumentation data. Requests for shadow operations will be generally made by the government POC to the appropriate PSM. This request must include the purpose/objective of the related operation (or if it is stand-alone) and identify any potential impacts to the primary operation. The PSM will coordinate with all appropriate parties (launch agency, START Treaty Office, etc.) to determine if the shadow operation(s) will affect any prior agreements. Requests for related/shadow operations must be provided to the PSM NLT 45 days prior to the desired operation date or the suspense date stated in program’s UDS documents (whichever is earlier).

3.6. Major Pre-Launch Operations Scheduling. Requests for major pre-launch milestone support which must be completed on a specific day or within a defined time frame, which if not completed on time would cause a launch slip must be submitted to the DOS Forecast Scheduling Element prior to Shark Sheet generation or at least 30 calendar days in advance of the requirement for a previously scheduled launch. This is necessary so that conflicting operations that are less time critical can be moved without serious impact to other range users and launch missions. Critical path milestones will receive priority over other activities if this does not impact other approved launch dates. All major readiness pre-launch operations must be included on the SLD 45 Form 2050 or 2091. Other forecasted pre-launch operation requests should be submitted no later than 1200 local time on Thursday two weeks prior to the planned activities.

3.7. Maintenance Coordination. Any maintenance activity which may affect range systems (including construction projects, facility improvements, range maintenance, major system modifications, new equipment installations, utility support, etc.) will be coordinated through DOS in advance so that impacts can be assessed and mitigated as required. Critical range system outages and/or failures expected as a result of planned maintenance activities must be coordinated with DOS well in advance of the project start date.

3.7.1. Maintenance outages. Any maintenance request that will remove a part of an instrumentation system or a significant range resource from the schedule in excess of 24 hours will be coordinated through the contractor's scheduling section. Contractor Scheduling will then de-conflict and coordinate the request through DOS for approval by 1 ROPS/CC.

3.7.2. Maintenance resource de-confliction. When resources are available without conflict, the requirement for maintenance will be scheduled as requested. If a range user requests a resource scheduled for maintenance, DOS will evaluate the situation and make a recommendation based on official directives and existing policies to optimize resource utilization. If the proposed recommendation is unacceptable to the parties, DOS will elevate the issue to 1 ROPS/CC or DO for final resolution.

3.7.3. Maintenance Priorities. Mission Essential corrective equipment maintenance will be conducted to ensure range systems always maintain Fully Mission Capable (FMC) status. Routine maintenance activities will not have priority over ongoing operations.

3.7.4. Non-Mission Capable (NMC) condition/outages. Any event which causes an instrumentation NMC condition or outage that causes a Required or Mandatory asset to be unable to perform its primary mission must be reported to 1 ROPS/DOS as follows:

Table 3.1. Non-Mission Capable Condition/Outages.

| Hours | Report From | Report To | Time |
|--|--|--|---|
| 0730-1615 Mon-Fri | Contractor Scheduling | 1 ROPS/DOS (321) 853-5941 | Within 30 minutes of notification |
| 0730-1615 Mon-Fri | Contractor Maintenance Control Center (MxCC) | | Within 1 hour of notification to MxCC |
| All other hours | Contractor Mission Communications Control (MCC) Duty Rep | SLD 45 Comm Focal Point (321) 494-2666 | Within 1 hour of notification to MCC Duty Rep |
| <p>NOTE: Remedy, IMDS Equipment Status Reporting (ESR), LIMES (Compass). Daily SitRep is delivered to 1ROPS Range Engineers daily appx 1300L.</p> | | | |

3.7.4.1. When reporting NMC conditions and outages, the contractor will include an explanation or cause of the outage (if known) and an estimated time of returning (ETRO) the asset to FMC condition. During normal working hours, 1 ROPS/DOS will forward the NMC information to the SLD 45 Command Post for notification of SLD 45 leadership. During 1ROPS/DOS non-working hours, the Contractor MCC Duty Representative will notify the SLD 45 Comm Focal Point.

3.8. Major Maintenance and Range Sustainment Scheduling. Planned maintenance and major modifications involving range instrumentation systems which will prevent execution of any or all launch missions for periods greater than 24 hours must be requested, coordinated and scheduled well in advance of requirements. It is recommended that major system outage requirements be submitted to DOS for consideration at least 6 months in advance whenever possible so that range and customer impacts can be assessed, and viable contingency plans formulated as necessary. All other routine maintenance and modification activities involving range instrumentation systems will be scheduled with a specific call-up period (or a no call-up period) regardless of the duration of the downtime. If a range user requests use of an instrumentation system with a call-up period, maintenance will be deferred, and the system will be returned to FMC status for resource utilization. An ETRO will be provided for each scheduled (and unscheduled) downtime.

3.8.1. A process for scheduling modernization and sustainment efforts of Eastern Range instrumentation by approved organizations is prescribed. Modernization and sustainment activities include, but are not limited to analysis, demonstrations, both dry run and formal Developmental Test and Evaluation (DT&E), Installation/Integration Assembly Test and Checkout (IATC), range system down time, upgrades and Site Integration/Acceptance Tests.

3.8.2. Requests to perform Level III Formal Development Tests (dry run, DT&E, etc.) or Level IV Formal Operational Tests must include a Test Plan/Procedure detailing step-by-step actions on what is to be done at the time of testing and must be submitted no later than 10 days prior to the needed date to the appropriate members of the test team in the ER O&M. Refer to the Contractor Operating Instruction titled Range Scheduling Requests for more detailed information.

3.8.3. The contractor will evaluate the SRW documentation for instrumentation support adequacy and issue range instrumentation Operations Control Instructions (OCI) as necessary. The contractor will assign conflict-free SRW requests, an operations number and enter it into the ER instrumentation schedule database.

3.9. Operations Scrub. DOS will be notified immediately when range users decide to scrub a scheduled operation. If a scheduled operation is to be scrubbed or terminated by the range, the ER and range user will jointly evaluate the circumstances involved and explore possible alternative solutions prior to a decision. If an operation is in progress, the decision to scrub or terminate will be jointly coordinated and agreed to between ER and the range user prior to any announcement. The operation must be scrubbed by official actions as follows:

3.9.1. Prior to pick up of range operation count, all requests for scrubs/reschedules will be directed to DOS.

3.9.2. During a range operation or launch countdown, the ROC will be the official agent for accepting customer scrub requests. Upon notification of a scrub, the ROC will determine whether a customer will request a 24-hour or longer recycle. Prior to releasing any instrumentation, the ROC will forward the user's request to DOS and Delta leadership to determine if a 24-hour or longer launch recycle is supportable. If SLD 45/CC approves a new launch date, the ROC will forward this information to DOS before instrumentation release.

3.10. Rescheduling Action Following a Scrub. A reschedule date must be requested through DOS immediately following the scrub.

3.11. Operation Termination Reporting. The Range user will immediately report completion, scrub, or termination of all active operations to DOS whenever a RCO is not available at a console position.

3.12. Range Turnaround Constraints. The minimum "turnaround time" from one launch operation (measured from T-0 to T-0) to another (or one major operation to another) is dependent upon instrumentation availability and contractor manpower constraints. Other factors that must be considered by DOS are the Set-up/Recycle/Configuration/Calibration/Crew Rest periods, the time of day for the operation, extended minus or plus counts, contractor consecutive workday limits, etc. All these factors (and more) must be considered prior to approving customer requested launch dates or major milestone dates, especially when the requested dates impact another user's already approved launch or major milestone operation(s).

Chapter 4

RESPONSIBILITIES AND PROCEDURES

4.1. Range Responsibilities. 1 ROPS/DOS serves as the primary interface for launch customers concerning range scheduling for their launch programs. The range is required to maintain an executable launch schedule as defined by AFSPCI 13-613, *Launch Forecasting, Planning and Scheduling Procedures*.

4.2. Customer Scheduling Responsibilities. New scheduling representatives are highly encouraged to meet with DOS prior to scheduling operations for an orientation into the range scheduling process. The Range Scheduling Flight can provide valuable scheduling information and insight. The following sections describe standard scheduling procedures.

4.2.1. Long Range Launch Forecasts. Range users will submit updated launch forecasts to DOS when requested to support CLSRB meetings. Forecasted activities will be classified IAW individual Program Security Classification Guides. The forecast will also include information applicable to each operation such as:

- 4.2.1.1. Operation Number, if assigned.
- 4.2.1.2. Month, date, and time of test to be conducted.
- 4.2.1.3. Program Job Order Number.
- 4.2.1.4. Vehicle Type.
- 4.2.1.5. OD number.
- 4.2.1.6. Launch Site and Landing location (if applicable).
- 4.2.1.7. Mobile sensor requirements.
- 4.2.1.8. Impact area(s).

4.2.2. Weekly Schedule Requests. The Weekly Schedule is a listing of firm user range support requirements (launch and pre-launch activities) for the next week. User requirements should be submitted to DOS by e-mail and recorded on SLD 45 Form 2091 (*Range Scheduling/Cape Support Request*) no later than 1200L on Thursday two weeks prior to the required date. Finalized schedules are normally published on the last working day of the week for the following week. Each schedule request will include the following information:

- 4.2.2.1. Date and time test is desired.
- 4.2.2.2. OD number and deletions or additions.
- 4.2.2.3. Job Order Number.
- 4.2.2.4. Location (building, area or launch site).
- 4.2.2.5. Identity of the range user, test conductor and individual contact telephone numbers for pre-coordination and in-progress operations, as well as for emergency purposes (e.g. halt operations).
- 4.2.2.6. Associated operation number.

4.2.2.7. In case of pre-launch support operations, define resource/items required if greater or less than already specified in the OD.

4.2.2.8. A minimum of 24-hours advance notification is required for operations requiring airspace coordination, civil engineering or CCSFS Skid Strip landing operations.

4.3. OD Scheduling Policies. When operations are scheduled, all support listed in the OD will be committed to the operation, except those resources deleted by the customer (for user requirements) or deleted by mutual agreement. Any agency requiring instrumentation or facilities not listed in the OD must contact the PSM for determination and approval before resources can be committed. DOS will coordinate with appropriate SLD 45 agencies, contractor offices and support ranges when determining range resources availability in cases where new requirements are added. If support can be provided and adequate coordination has been accomplished, requested resources will be scheduled. This will constitute a range commitment and authorize supporting agencies to issue necessary instructions.

4.3.1. All operations requiring “RF Silence” will be scheduled IAW OD 10040.

4.3.2. Requirements for support from non-ER resources not included in the OD, (e.g., helicopters, weather aircraft, ships, off-range resources, WR, NASA instrumentation sites, Wallops Flight Facility, etc.) must be submitted as far in advance as possible and NLT 30 calendar days prior to the requested support date (first use).

4.3.3. Services and resources not included in the OR/OD must also be coordinated through the Launch Integration Manager (LIM) at COMM: (321) 853-8368 DSN: 467-8368.

4.3.3.1. CLOIS Contract services (Base facilities, Fire Department, Security, etc..) will be scheduled through the Cape Support Office at (321) 853-5211, DSN 467.

4.3.4. Deviations from the OD or support document should reach DOS no later than 1200L on the day preceding the requested support date. For changes to launch support requirements, changes should reach DOS on the day preceding the scheduled F-1 day support. If for any reason ER cannot support the deviation as requested, the Range user will be requested to take the following action:

4.3.4.1. Withdraw the deviation and run the operation as initially requested.

4.3.4.2. Reschedule the operation at a later date so proper coordination with all agencies concerned may be accomplished.

4.4. Internal ER Test Scheduling. All internal range tests are scheduled through the contractor’s scheduling office. Internal testing includes, but is not limited to preventive maintenance, system modifications, hardware engineering/software development, system degrades and system outages. The contractor scheduler coordinates requested assets with all support agencies prior to submitting requests to DOS for approval. DOS will process and integrate all range activities into the overall schedule as required to accomplish the mission.

4.5. Launch and Hazardous Operation Safety Notifications. DOS is responsible for providing hazardous operations notifications by official messages to the appropriate agencies. Mandatory safety notifications involving land, national and international air and sea space are sent to the responsible agencies which then publish and distribute NOTAMS by the FAA and NOTMARS by the U.S. Coast Guard for the general public’s safety, awareness and required action(s).

4.6. Other Range User Responsibilities. Range users shall:

- 4.6.1. Provide representation at weekly DOS meetings.
- 4.6.2. Notify DOS when scheduled base support activities (maintenance or modification to power, roads, water, etc.) could potentially impact unscheduled/scheduled launch processing.
- 4.6.3. Notify DOS of the status of operations on the current and long range forecast as soon as changes occur.
- 4.6.4. Contact DOS to relinquish unattainable launch dates as soon as information becomes available that indicates an approved launch date cannot be met.
- 4.6.5. At the time of submission, range users must identify those operations that are weather sensitive or hazardous. Conflicts for resources or services that cannot be resolved by the contractor will be channeled to DOS for prioritization and resolution.
- 4.6.6. Requests for deviations from the approved schedule or support document should reach DOS no later than 1200L on the day preceding the requested support date. Requests for changes to launch support requirements should reach DOS on the day preceding the scheduled F-1 day support. If the ER cannot support the deviation as requested, the user will be required to take the following action:
 - 4.6.6.1. Withdraw the deviation and run the operation as initially requested.
 - 4.6.6.2. Reschedule the operation to a later date so proper coordination with all agencies can be accomplished.
- 4.6.7. Scheduling requests submitted for an operation that is to run the following workday must be confirmed through positive contact with DOS Real-time Scheduling via telephone to ensure the requested assets are available.
- 4.6.8. Operation Completion Requirements. Customers are required to “close out” all scheduled operations NLT the scheduled completion time unless an extension has been requested and approved. In addition, customers will notify DOS when operations are terminated or completed prior to the scheduled end time to prevent unnecessary program costs. The range user will immediately report completion, scrub, or termination of all active operations to the on-console ROC. If there is no ROC support, or if the ROC is not at a console position, range users are required to notify DOS when the operation concludes. Immediately upon test completion, the test conductor (or person in charge of the operation) must call 853-5941, regardless of whether the test was satisfactory or not. If problems were encountered during the operation, the range user will provide a brief, non-technical unclassified description. Users must also notify DOS of any changes in post-operation data requirements after completing each test. During non-duty hours (1600-0800), range users will leave a recorded message on the DOS answering machine at ext. 853-5941, (321) 853-8696 or e-mail to 45ransschd@us.af.mil indicating the operation number, completion time and any problems encountered. Completed operations cannot be rescheduled using the same operations number.

Chapter 5

SCHEDULES AND OPERATIONAL STATUS REPORTS

5.1. Forecasts, Schedules, and Reports. The items listed below are prepared and distributed by DOS. Agencies desiring specific or periodic forecasts, schedules or reports must submit written requests (in advance) along with justification to DOS. Non-DoD civilian agencies requesting these items must have the military sponsor or contract monitoring officer endorse the requirement before materials can be released.

5.1.1. **ER Consolidated Activity Forecast.** This document is constantly updated and maintained as scheduled operations and launch dates are approved. It is a dynamic 90-day forecast briefing slide of launch and major range instrumentation support operations scheduled on the ER. The 90-Day Range Forecast is located on the StarGate scheduling system or can be obtained by contacting DOS.

5.1.2. **Weekly Schedule Forecast.** The schedule lists all operations scheduled on the ER and the instrumentation resources that have been allocated to support each operation. The schedule is published each weekday online prior to 0900.

5.2. Resource Utilization Summary. The ER Operations and Workload Summary provides a quantitative measurement of range systems workload capacity and the amount of work performed by the systems. This summary is generated from data that is collected and processed by the Stargate Reporting Tool. Requests for this document may be submitted in writing to DOS.

Chapter 6

OPERATIONS SECURITY

6.1. Schedule Classification. Some programs impose specific security classification requirements on activities associated with their programs. Since DOS does not publish a classified schedule, all classified range operations will only be referenced by the assigned operation number and date and time until it is de-classified. The fact that an operation has been completed does not mean that it has been de-classified. Post-operation security measures will continue to be implemented in the same manner as used prior to the operation unless otherwise directed by the range user, program official or the Security Classification Guide (SCG). Detailed guidance regarding the classification of a program is available from the individual program's SCG. A summary of applicable security classification guidance is usually published in the program's OD.

6.1.1. Daily and weekly schedules published by DOS are considered Controlled Unclassified Information, Not for Public Dissemination.

6.1.2. Operation schedule requests will be submitted IAW the appropriate SCG and will be marked with the highest classification indicated in the SCG or other derivative information. Classified information on schedule request forms that have different levels of classification will be portion marked with the appropriate classification levels. Proper downgrading and declassification instructions will also be indicated on the scheduling request. Operation schedule request forms that are not properly marked will be refused by DOS until proper markings have been applied.

6.1.3. The Daily/Weekly Schedule Report, ER Consolidated Activity Forecast and Major Ops Calendars contain information that must be protected IAW AFI 33-332 and DOD Regulation 5400.11; Privacy Act of 1974 as Amended 5 U.S.C. 552a and are Controlled Unclassified Information (CUI). Range users and aerospace contractors are responsible for safeguarding and maintaining scheduling products IAW the Privacy Act of 1974.

6.1.4. SLD 45/PA, Public Affairs, is the office of record for DoD and NASA public releases that apply to SLD 45 launch operations.

6.2. Operations Security (OPSEC) Practices. A great deal of operations information, although unclassified, is considered "sensitive" and will be treated on a "need-to-know" basis. Observations of general launch complex activities, correspondence, telephone calls and the implementation of various activities related to the conduct of operations can all be indicators for an impending operation. All personnel must be alert to the fact that sensitive unclassified information, if freely discussed, can compromise classified information by compilation methods. Information pertaining to any aspect of test operations will not be discussed with anyone except those whose duties require the information. Such terms as "launch", "firing operation", or other terms denoting an actual operation will be avoided when discussing any classified operation. OPSEC was considered in the development of this document IAW AFI 10-701, *Operations Security*.

Chapter 7

PRESCRIBED FORMS

7.1. SLD 45 Form 2010, Launch Forecast.

7.2. SLD 45 Form 2050, Launch Operation Schedule Request.

7.3. SLD 45 Form 2091, Range Scheduling/Cape Support Request.

7.4. Availability of Scheduling Forms. SLD 45 scheduling forms can be obtained by accessing the StarGate scheduling system upon DISA certification or contacting DOS via an e-mail or phone request. **NOTE:** 1 ROPS/DOS requires an original copy of each form submitted by range users. The scheduling office will provide appropriate training on use of SLD 45 scheduling forms upon request.

STEPHEN G. PURDY, JR.
Major General, USSF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

DoDD 3200.11, *Major Range and Test Facility Base*, 15 October 2018

AFI 10-701, *Operations Security*, 24 July 2019

DAFI 90-160, *Publication and Forms Management Program*, 15 April 2022

AFI 33-322, *Records Management and Information Governance Program*, 28 July 2021

AFSPCI13-613, *Launch Forecasting, Planning, and Scheduling Procedures*, 16 July 2018

45SWI99-101, *Space Launch Delta 45 Mission Program Documents*, 6 August 2019

Prescribed Forms

SLD 45 Form 2010, *Launch Forecast*

SLD 45 Form 2050, *Launch Operation Schedule Request*

SLD 45 Form 2091, *Range Scheduling/Cape Support Request*

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AF—Air Force

AFB—Air Force Base

AFI—Air Force Instruction

AFPD—Air Force Policy Directive

AFS—Air Force Station

AFSPC—Air Force Space Command

AFSPCI—Air Force Space Command Instruction

AFSTRAT—Air Forces Strategic

AOC—Air and space Operations Center

CC—Commander

CCSFS—Cape Canaveral Space Force Station

CLSFL—CLSRB Launch Scheduling Factors List

CLSRB—Current Launch Schedule Review Board

CUB—Commander's Update Briefing

DAFI—Department of the Air Force Instruction

DARPA—Defense Advanced Research Projects Agency

DOC—Designed Operational Capability

DoD—Department of Defense

EELV—Evolved Expendable Launch Vehicle

ER—Eastern Range

FAA—Federal Aviation Administration

FYDP—Future Years Defense Program

IAW—In Accordance With

ILC—Initial Launch Capability

JFC—Joint Forces Command

JUON—Joint Urgent Operational Need

LCR—Launch Change Request

LISN—Launch Information Support Network

LRSW—Launch and Range Systems Wing

LSO—Launch Services Office

LTA—Launch to Augment

LTD—Launch to Deploy

LTR—Launch to Reconstitute

LTS—Launch to Sustain

LTSP—Launch to Sustain: Predicted

LTSU—Launch to Sustain: Unforeseen

LV—Launch Vehicle

MOA—Memorandum of Agreement

MDA—Missile Defense Agency

NASA—National Aeronautics and Space Administration

NIB—Non-Interference Basis

NLF—National Launch Forecast

NRO—National Reconnaissance Office

NSS—National Security Space

OD—Operations Directive

OPR—Office of Primary Responsibility

POC—Point of Contact

POM—Program Objective Memorandum

PPB&E—Planning, Programming, Budgeting, and Execution

ROPS—Range Operations Squadron

SMC—Space and Missile Systems Center

SMDC—(Army) Space and Missile Defense Command

SV—Space Vehicle

SW—Space Wing

UDS—Universal Documentation System

UCC—Unified Combatant Command

URL—Uniform Resource Locator

USSTRATCOM—United States Strategic Command

WR—Western Range

Attachment 2

SAMPLE SCHEDULING REPRESENTATIVE MEMORANDUM

Figure A2.1. Sample Scheduling Representative Memorandum.

| | |
|---|---------------|
| MEMORANDUM FOR 1 ROPS/DOS | Date: Current |
| Date | |
| ATTN: Mr. Steve Parish 10400 Phillips Parkway (CCSFS) MS 2004 Patrick SFB, FL 32925-2618 | |
| FROM: (YOUR ORGANIZATION) (YOUR ADDRESS) | |
| SUBJECT: (Name of Program) Scheduling Representatives for Eastern Range Operations | |
| The following personnel are authorized to schedule/reschedule or slip launch operations for (Name of Program): | |
| <u>Name:</u> | <u>Phone:</u> |
| The following personnel are authorized to schedule/reschedule or slip non-launch operations for the (Name of Program): | |
| <u>Name:</u> | <u>Phone:</u> |
| Provide point of contact telephone numbers for after hour coordination and questions. | |
| CUSTOMER ORGANIZATION COMMANDER/ PROGRAM MANAGER | |

Attachment 3

DELEGATION OF LAUNCH APPROVAL AUTHORITY

Figure A3.1. Delegation of Launch Approval Authority.



DEPARTMENT OF THE AIR FORCE
UNITED STATES SPACE FORCE
SPACE LAUNCH DELTA 45

21 March 2023

MEMORANDUM FOR 1 ROPS/CC

FROM: SLD 45/CC
1201 Edward H. White II Street Patrick
Space Force Base FL 32925

SUBJECT: Delegation of Launch Approval Authority

Reference: SLD45I 13-613 (Eastern Range Scheduling) Paragraph 3.4.

1. The SLD 45/CC is the final approval authority for all ER launches. With the exception of cases involving unresolved schedule conflicts between launch service providers and/or holiday period scheduling, the authority to approve launches is delegated to the 1st Range Operations Squadron Commander.
2. In the case of an unresolved schedule conflict between launch service providers and/or holiday period scheduling, that ILC or reschedule request will be forwarded to the SLD 45 Vice Commander of Operations (SLD 45/CV-O).
3. The 1 ROPS/DOS POCs for this matter are Mr. Steve Parish, 853-2012, and Mr. Roy Holbeck, 853-5947.

PURDY.STEPHE Digitally signed by
PURDY STEPHEN G. 1043019259
Date: 2023.03.22 11:48:57 -0400
N.G.1043019259
STEPHEN G. PURDY, JR.
Major General, USSF Commander

Attachment:
SLD45I 13-613 Eastern Range Scheduling