

with the customer; however, NASA reserves the unilateral right to make decisions with regard to launch schedules.

(c) *Payload delivery.* NASA, in consultation with the customer, will establish a date for payload delivery to the launch site.

(d) *Reflight scheduling.* NASA will attempt to schedule a payload reflight at the earliest opportunity, but normally no earlier than 14 months after a determination is made that a customer is entitled to, and in fact requests a reflight.

§ 1214.110 Reflight.

(a) NASA will provide a reflight of a customer's payload under conditions defined in the launch agreement. The standard flight price for reflights will be based on NASA's marginal cost as defined in § 1214.102(f). Reflights only apply to dedicated flights and those shared-flight payloads that can be accommodated on a standard launch as defined in § 1214.117.

(b) Reflights as defined in this § 1214.110 apply only to the same payload involved in the launch that necessitated the reflight, or to an essentially identical payload with essentially identical integration and flight operations requirements.

§ 1214.111 Rendezvous services.

(a) A rendezvous mission involves the rendezvous of the Space Shuttle orbiter with an orbiting spacecraft for one or more of the following purposes:

(1) Retrieval and return to Earth of the orbiting spacecraft (or part thereof), including a spacecraft deployed earlier on the same Space Shuttle flight.

(2) Exchange of a spacecraft (or part thereof) delivered to orbit on a particular Space Shuttle mission for an already orbiting spacecraft (or part thereof) and return of already orbiting spacecraft to Earth.

(3) Revisit of an orbiting spacecraft for purposes such as resupply, repair, reboost or inspection.

(b) Mission operational requirements and associated optional service charges and conditions for both dedicated and shared flight rendezvous services will be negotiated on a case-by-case basis.

§ 1214.112 Patent, data and information matters.

(a) *Patent and data rights.* NASA will not acquire rights to inventions, patents or proprietary data which may be used in, or arise from, activities for which a customer has reimbursed NASA under the policies set forth herein. However, in certain instances in which the NASA Administrator has determined that activities may have a significant impact on the public health, safety or welfare, NASA may obtain assurances from the customer that the results will be made available to the public on terms and conditions reasonable under the circumstances.

(b) *Information.* All customers will be required to furnish NASA with sufficient information to ensure Shuttle safety and NASA's and the U.S. Government's continued compliance with law, published policy and the U.S. Government's obligations.

§ 1214.113 Allocation of risk.

The U.S. Government will assume no risk for damages to the customer resulting from certain activities conducted under the launch agreement or to third parties resulting from launch related activities or on-orbit operations. The customer will be required to agree to be bound by a cross-waiver of liability among the customer, other customers, related entities and NASA for all activities under the launch agreement. The customer will also be required to purchase third-party liability insurance covering launch and on-orbit operations in an amount deemed appropriate by NASA.

§ 1214.114 Provision of services.

NASA will provide, solely at its discretion, services to the extent consistent with U.S. obligations, law, policy and capability.

§ 1214.115 Standard services.

Standard services for the Space Shuttle are generically defined in NASA document NSTS 07700, Volume XIV. The standard services to be provided for a specific payload will be agreed to between NASA and the customer in the

§ 1214.116

launch agreement and associated payload integration documentation. Typical standard services include the following for each customer.

(a) A standard launch that meets the criteria established in § 1214.117.

(b) Transportation of the customer's payload in the orbiter cargo bay in a location selected by NASA.

(c) One day of single-shift, on-orbit mission operations.

(d) A five-person flight crew: commander, pilot and three mission specialists.

(e) Orbiter flight planning services.

(f) One day of transmission of payload data to compatible receiving stations via an Independent Payload Data Stream. (Subject to availability, NASA may make excess orbiter instrumentation downlink capability available to payloads at no additional charge.)

(g) Deployment of a free flyer, provided the payload meets all the conditions stated in § 1214.118.

(h) NASA support of selected payload design reviews.

(i) Prelaunch payload installation, verification and orbiter compatibility testing.

(j) NASA payload safety reviews.

§ 1214.116 Typical optional services.

Typical optional services that may be provided by NASA include the following, and will be further defined and limited in payload integration documentation agreed upon by NASA and the customer.

(a) Use of Extended Duration Orbiter (EDO) capability or other mission kits to extend basic orbiter capability.

(b) Extravehicular activity (EVA) services.

(c) Transportation to orbit of all or a part of the customer's payload in other than the orbiter cargo bay.

(d) Unique payload/orbiter integration and test.

(e) Payload mission planning services, other than for launch, deployment and entry phases.

(f) Additional time on orbit.

(g) Payload data processing.

(h) Flight of payload specialists.

(i) Transmission of payload data via an Independent Payload Data Stream during additional time on orbit.

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(j) Transmission of payload data via a Direct Data Stream.

§ 1214.117 Launch and orbit parameters for a standard launch.

To qualify for the standard flight price, all payloads must meet the following launch criteria:

(a) For dedicated flights:

(1) Launch from Kennedy Space Center (KSC) into the customer's choice of two standard mission orbits: 160 NM circular orbit, 28.5° inclination (nominal), or 160 NM circular orbit, 57° inclination (nominal).

(2) Launch on a date selected by NASA within the scheduling constraints specified in the launch agreement.

(3) Launch at a time, selected by NASA, from a launch window of not less than 1 hour (a more restrictive launch window may be provided as an optional service).

(b) For shared flights from KSC to the standard mission orbit of 160 NM circular orbit, 28.5° inclination (nominal):

(1) Launch on a date selected by NASA within the scheduling constraints specified in the launch agreement.

(2) Launch at any time of day, selected by NASA.

§ 1214.118 Special criteria for deployable payloads.

To qualify for the standard flight price, deployable payloads must meet certain criteria in terms of time of day of launch, and other factors. These criteria will be specified in the launch agreement and associated payload integration documentation.

§ 1214.119 Spacelab payloads.

(a) *Special provisions.* This § 1214.119 establishes the special provisions for Spacelab services provided to Space Shuttle customers. Where designated, provisions of this § 1214.119 supersede those of other portions of this document. The following five types of Spacelab flights are available to accommodate payload requirements:

(1) Dedicated-Shuttle Spacelab flight (Ref. § 1214.119(d)(3)).

(2) Dedicated-pallet flight (Ref. § 1214.119(d)(4)).