

ASIA/PACIFIC PLANNING CHECKLIST FOR BALLISTIC LAUNCH AND SPACE RE-ENTRY

A.1 Launch Facilities:

- Generally ballistic launches take place from pre-defined locations. This should enable analysis and pre planning of contingency options that can be activated when a launch is notified
- Launch locations (whether mobile or static) should be positioned away from busy air traffic areas.

A.2 Pre Launch Planning:

- Launch details should be published at least **two working weeks'** notice; if possible, and include
 - Extent and coordinates of proposed danger Zone
 - Ensure planning and notification is in place for any re-entry/debris possibility
 - Tentative launch window (timing and dates)

To all affected FIRs and respective ICAO regional office.

- Ideally the Launch State should have at least one conference call with affected FIR operational management to:
 - discuss impact and options for alternative dates/times that minimise operational impact
 - identify contingency routing if possible
 - coordinate NOTAM action
 - Discuss any possible re-entry issues and impact
 - Liaison with affected airspace Users
 - Notify and agree process for actual activation and cancellation of any restrictions

A.3 Tactical Launch Co-ordination process:

- Actual Launch "Window" published with ideally **three days'** notice; but not less than 24hrs
- Launch State to ensure ongoing collaborative information sharing with points of contact in affected FIRs:
 - Real Activation Time Window: As the countdown begins / at least four hours prior;
 - Facilitating launch with minimal impact on civil air traffic: Launch authorities to clearly convey estimated normalcy time e.g. flights beyond XX:XX (time in UTC) can expect normal routings, but can be advised to carry fuel for the alternate routings (to be on safer side),
 - Notify Lift off: As soon as the Rocket gets airborne and
 - Notify End of activity through NOTAMC: coordinate and ensure immediate withdrawal of NOTAMs by all affected FIRs

A.4 Launch Cancellations:

- Cancellations of launch at any point of time needs to be disseminated as soon as possible to all affected FIRs.
- Ongoing information sharing should take place until the 'all clear' is given.

ROCKET LAUNCH/SPACE RE-ENTRY ACTIVITY MANAGEMENT

PLANNING CHECK LIST

- Launch required by:
- Proposed Temporary Danger Area:
- Proposed launch Reservation window:
- Date: DD/MM/YYYY to DD/MM/YYYY Time: XX:XX to YY:YY UTC
- Proposed Definitive launch window:
- Date: DD/MM/YYYY to DD/MM/YYYY Time: XX:XX to YY:YY UTC
- Expected exact date of launch: DD/MM/YYYY

<i>Affected FIR</i>	<i>Affected AWYs</i>	<i>Affected Flights in requested Time window</i>	<i>Option 1: Suggested revised time and date</i>	<i>Option 1: Affected flights in revised time and date</i>	<i>Option 2: Suggested revised time and date</i>	<i>Option 2: Affected flights in revised time and date</i>

Pre-Launch Conference Call agenda:

- Notify latest Launch details and logistics
- Identify contingency routing:
- Identify SUA, FUA options to improve ATM during launch:
- Coordinate NOTAM action among all affected FIRs:
- Discuss any possible re-entry issues and impact:
- Notify process for actual activation and cancellation of any restrictions: (AFTN/NOTAM/NOTAMC/email, Telephone Call),
- Any other business

Identify Points of Contact (POC) for airspace reservation co-ordination,

Affected FIR	POC (Name, Designation)	Tel , Mob, AFTN	Email