

1.0 Soyuz Contingency Landings in US (and North America)

Purpose

Decision for Soyuz to perform contingency landing in the US (and North America) will be initiated by Flight Directors according to Flight Rules.

The Soyuz or ISS Crew, the Lead MCC-M Flight Director (___) and/or the Houston Flight Director will be the parties involved in the decision to perform a contingency landing of the Soyuz in the US. After the decision is made and for the following procedure, the Soyuz (or Vehicle) Flight Director (___) will be the interface to the Houston Flight Director.

Participants

HOUSTON FLIGHT

TOPO

LSO

KSC

AFRCC

DDMS

HSG/RIO

HSFPR

NASA HQ

FLIGHT SURGEON

FEDERAL SEARCH AND RESCUE

RUSSIAN FLIGHT SURGEON

IBMP

RUSSIAN BALLISTICS

RSC-E MANAGEMENT

Procedure

1. T = 0 Houston and Moscow Flight Directors notify support organizations.

1.1 HOUSTON FLIGHT notifies support organizations within the US.

a) HOUSTON FLIGHT notifies AFRCC and DDMS

AFRCC provides search and rescue operations of the Soyuz crew (location, evacuation and transportation to the hospital), including initial perimeter and vehicle security.

DDMS provides . . .

b) HOUSTON FLIGHT notifies Flight Surgeon

Flight Surgeon assists in the on-site medical support of the Soyuz crew.

c) HOUSTON FLIGHT notifies TOPO

Attachment A – Draft (English)

TOPO notifies several organizations: AFRCC/DDMS, NORAD, and LSO. TOPO then works with Russian Ballistics to determine the location (latitude and longitude) and time of Soyuz landing.

- d) HOUSTON FLIGHT notifies HSG/RIO
HSG/RIO notifies HSFPR, arranges interpreter support, and works with MCC-M to gather and confirm information regarding Russian Response team.
- e) LSO notifies KSC and NASA HQ
LSO provides the interface with external NASA organizations: FAA, etc. LSO also provides notification to NASA HQ and KSC. KSC assumes perimeter and vehicle security upon arrival as well as ground transportation and logistics support for the Russian Response team upon their arrival. NASA HQ provides arrangements for visas and customs clearance of incoming Russian Response team.
- f) HOUSTON FLIGHT notifies ___ that all organizations have been mobilized.

1.2 S/P ___ notifies support organizations within Russia.

- a) ___ notifies Federal Search and Rescue
Federal Search and Rescue initiates efforts to mobilize aircraft and all required actions for departure to US landing site . . .
- b) ___ notifies Flight Surgeon and IBMP
Flight Surgeon assists in the on-site medical support of the Soyuz crew. IBMP . . .
- c) ___ notifies Ballistics
Ballistics works with TOPO to determine the location (latitude and longitude) and time of Soyuz landing.
- d) ___ notifies RSC-E Management
RSC-E Management will assist in coordination efforts to establish the Russian Response Team . . .
- e) ___ notifies HOUSTON FLIGHT that all organizations have been mobilized.

2. All US support organizations will provide regular status and information to HOUSTON FLIGHT. All Russian support organizations will provide regular status and information to ___ or when in the US to the US support organization (US Flight Surgeon or KSC Support) for relay to HOUSTON FLIGHT and ___. The minimum information exchange is defined in Table 1.

3. All information available regarding the operations of the support organizations should be jointly shared between the HOUSTON FLIGHT and ___ on ISS Ops, Moscow to Houston Voice Loop 18. The minimum information exchange is defined in Table 1.

Responsibilities and Activities for Support of Soyuz Contingency Landing

AFRCC

- Coordinates with DDMS
- Coordinates with USSPACECOM
- Coordinates with Federal/State/Local search and rescue
- Faxes checklist to search and rescue forces, refer to *Soyuz Escape Capsule Responding Instructions*
- Interface with search and rescue through crew evacuation
- Maintains vehicle and perimeter security (through
- Reports information to LSO as defined in Table 1

DDMS

- Mans support operation center
- Liaison to DOD support and NASA
- Reports information to LSO as defined in Table 1

US Flight Surgeon

- Assists in crew evacuation
- Provides medical support to crew members
- Reports medical status to HOUSTON FLIGHT as defined in Table 1
- Reports medical status of Russian crew member(s) to Russian Medical Team
- Diagnose and treat crew members in local hospital (stabilization and rehabilitation)
- Refer to *Medical Operations Procedure (tbd)*

KSC

- Coordinates with local law enforcement
- Sustains landing site security
- Initiates acquisition of vehicle recovery support equipment
- Coordinates with surface transportation logistics
- Coordinates with OSHA, DOT and EPA
- Provides support as required to the Russian vehicle safing team
- Reports information to LSO as defined in Table 1

NASA HQ

- Arranges Visas for Russian Response team upon arrival
- Works with customs to clear aircraft and equipment upon arrival and departure of Russian Response team
- Reports information to LSO as defined in Table 1

HSG/RIO

- Arranges interpreter support for Russian Response team upon arrival

Attachment A – Draft (English)

- Works with MCC-M and HSFPR to exchange information for US visas and customs for the Russian Response Team
- Reports information to HOUSTON FLIGHT as defined in Table 1

LSO

- Provides external interface for MCC-H (DDMS, AFRCC, KSC, State Department, NASA HQ, FAA, other organizations as required)
- Reports information to HOUSTON FLIGHT as defined in Table 1
- Refer to *FCOH SOP 5.5 Soyuz Emergency Deorbit Notification*

TOPO

- Determines and reports landing site information to HOUSTON FLIGHT and AFRCC
- Interfaces with USSPACECOM for information
- Assists in notification of support organizations with LSO
- Reports information to HOUSTON FLIGHT as defined in Table 1
- Refer to *FCOH SOP 5.5 Soyuz Emergency Deorbit Notification*

HSFPR

- Works with MCC-M and NASA HQ to exchange information for US visas and customs for the Russian Response Team

Russian Flight Surgeon / IBMP

- Provides medical support to Russian crew member(s)
- Assists in evacuation of Russian crew member(s) to Russia
- Reports information to US FLIGHT SURGEON as defined in Table 1

Federal Search and Rescue

- Prepares mobilization efforts for Russian Response team (aircraft, equipment, flight plan)
- Assists US search and rescue operations as required
- Reports information to ___ as defined in Table 1
- Refer to *TBD*

Russian Ballistics

- Assists TOPO in determining landing site information
- Reports information to ___ as defined in Table 1
- Refer to *TBD*

RSC-E Management

- Assists ___ and Federal Search and Rescue team as required
- Works with HSFPR to exchange information for US visas and customs for the Russian Response Team