

October 14, 1970

B. General Operational Plan Description. The recovery quarantine equipment is utilized only in the landing area with the highest probability of earth landing following a lunar landing. This area is located in the Mid-Pacific Ocean and is supported by an aircraft carrier designated the primary recovery ship. Following the location of the command module by recovery forces and installation of the flotation collar by swimmers, the recovery quarantine phase will begin.

The swimmers who install the flotation collar will withdraw up-wind from the immediate vicinity of the command module. An additional swimmer, dressed in a protective garment and carrying three lightweight outer garments and mask for the spacecraft crew, will be delivered to the raft attached to the flotation collar on the spacecraft by helicopter. The spacecraft hatch will be opened momentarily and the three lightweight outer garments and masks will be handed to the spacecraft crew. After the crew have donned the garments in the spacecraft, they will close the postlanding ventilation system valves. The hatch will then be opened, and they will egress into the raft. The ECS umbilicals will be sealed with a hose interconnect fitting. The hatch will be immediately closed.

The command module crew will be retrieved by helicopter and delivered to the aircraft carrier. The helicopter will be towed to the immediate vicinity of the MQF where the spacecraft crew will leave the helicopter and immediately enter the MQF. The recovery helicopter will be moved to a suitable area and immediately decontaminated using approved procedures prior to being placed back into flight status. Following crew egress the swimmer will decontaminate the command module, collar, raft and his protective garment.

The command module will be retrieved by the ship, towed to the immediate vicinity of the MQF, and coupled to the MQF with a plastic tunnel. The recovery engineer from the MQF will enter the command module via the tunnel, remove samples and data, and complete command module shut-down procedures. The command module hatch will be resealed and remain sealed until it is placed in the LRL.

The biomedical samples, lunar sample containers, film, data, etc., from the CM will be packaged and decontaminated for quick return to the MSC via the closest land base. Approximately 45 hours after recovery, the crew members, and other MQF occupants, will egress the MQF through a double airlock affixed to the MQF door. There they will don lightweight garments and respirators. They will then be transported by helicopter to Samoa where they will enter a second MQF for return to Ellington AFB, Houston, Texas. This MQF will then be transported to the MSC where it will be coupled to the LRL. The MQF will then be closed out and placed into storage until the release from quarantine is authorized. The airlock module will be decontaminated in place using approved procedures. The shipboard MQF and airlock will be transported to Hawaii by the recovery vessel where it will be offloaded with the CM. The shipboard MQF and airlock will remain in a quarantine mode until release from quarantine is authorized. All helicopters transporting crewmembers will be decontaminated by established procedures following personnel egress.

In Hawaii, the residual fuels will be removed from the CM system. This operation is performed on the spacecraft exterior. The CM and shipboard MQF will then be transported to the MSC and will arrive approximately seven days after the astronauts arrive.

EXTRACT OF THE PROPOSED LUNAR RECEIVING LABORATORY
INTEGRATED QUARANTINE OPERATIONS PLAN - APOLLO 14

The previous wording of the modified paragraphs is, as follows:

The biomedical samples, lunar sample containers, film, data, etc., from the CM will be packaged and decontaminated for quick return to the MSC via the closest land base. The MQF with the astronauts, one doctor, and one recovery engineer inside will be transported in the MQF by the recovery ship to Hawaii. The MQF will then be transferred to a USAF C-141 aircraft for a direct flight to Ellington AFB, Houston, Texas. The MQF will then be transported to the MSC where it will be coupled to the LRL. The MQF will then be closed out and placed into storage until the release from quarantine is authorized.

In Hawaii, the residual fuels will be removed from the CM system. This operation is performed on the spacecraft exterior. The CM will then be transported to the MSC and will arrive approximately five days after the astronauts arrive.