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### Hacking Space Shuttles, Abort Codes : NailGun

From: **Karel Bagchus** <karel@worldonline.nl>  
Date: Tue, 15 Apr 1997 17:35:29 +0200  
Fwd Date: Tue, 15 Apr 1997 11:56:42 -0400  
Subject: Hacking Space Shuttles, Abort Codes : NailGun

Hi List,

I found this in the "Confidence is High" (Hackers Newsletter), think it's really funny and somewhat informative:

Hacking Space Shuttles, Abort Codes : NailGun

Okay, if you ever decide to hack a space shuttle (\*.arc.nasa.gov is hacked very frequently) and you actually plan it all out, make sure you collect all the parts of this "mini-guide" of little things that are important and you will need to know, this section concerns....

#### SPACE SHUTTLE ABORT MODES -----

Space Shuttle launch abort philosophy aims toward safe and intact recovery of the flight crew, orbiter and its payload.

Abort modes include:

- \* Abort-To-Orbit (ATO) -- Partial loss of main engine thrust late enough to permit reaching a minimal 105-nautical mile orbit with orbital maneuvering system engines.
- \* Abort-Once-Around (AOA) -- Earlier main engine shutdown with the capability to allow one orbit around before landing at Edwards Air Force Base, Calif.; White Sands Space Harbor (Northrup Strip), N.M.; or the Shuttle Landing Facility (SLF) at Kennedy Space Center, Fla..
- \* Trans-Atlantic Abort Landing (TAL) -- Loss of two main engines midway through powered flight would force a landing at Banjul, The Gambia; Ben Guerir, Morocco; or Moron, Spain.
- \* Return-To-Launch-Site (RTL) -- Early shutdown of one or more engines and without enough energy to reach Banjul would result in a pitch around and thrust back toward KSC until within gliding distance of the SLF.

STS-35 contingency landing sites are Edwards AFB, White Sands, Kennedy Space Center, Banjul and Ben Guerir, Moron.

Next time we will probably look at the payloads of space shuttles, 18r.

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