

2003 JAN 29 PM 2: 54

State's Exhibit 77

OFFICE OF THE SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

Probability of Aircraft Returning On Moser Recovery Route Crashing into the PFS Facility

$P = N * C * A / w$

	Lifetime F-16 Crash Rate for Normal Flight	2001 F-16 Crash Rate for Normal Flight
Ratio of aircraft in the UTTR South Range expected to use MRR	0.33	0.33
Updating ratio to reflect higher number of sorties flown in FY 2000 and to account for the additional 12 F-16s assigned to the 388th Fighter Wing = updated sorties transiting Skull Valley / FY 1998 sorties transiting Skull Valley = 7040/3871	1.82	1.82
N = number of aircraft flights returning on MRR/year = (aircraft flights in UTTR South Range - FY98) * (updating ratio) * (ratio of UTTR South range flights returning on MRR) = 5726 * 1.82 * 0.33	3436	3436
C = crash rate/ mile of flight	3.39245E-08	3.98116E-08
A = effective area of PFS facility (miles ²)	0.1337	0.1337
w = width of flight path in miles	11.5	11.5
P = probability of an F-16 on the MRR crashing into the PFS facility	1.36E-06	1.59E-06

Note:
Number of aircraft flights in UTTR South Range FY 1998 obtained from PFS *Crash Report Addendum* (July 20, 2001), Attachment GG at 1-8.
Crash rate for normal flight calculated in State's Exhibit 76.

CLEAR REGULATORY COMMISSION

Docket No. _____ Official Ex. No. 77

in the matter of PFS

Staff _____ IDENTIFIED _____

Applicant _____ RECEIVED ✓

Intervenor ✓ _____ REJECTED _____

Other _____ WITHDRAWN _____

DATE 5/15/02 Witness _____

Clerk _____ [Signature]