



State's Exhibit 79

2003 JAN 29 PM 2: 55

Probability of Jettisoned Ordnance Striking the PFS Facility

OFFICE OF THE SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

$$P = N * C * A/w$$

where,

$A = A_{sa} + A_{ctb}$ = Effective Area of storage area and canister transfer building

	Lifetime F-16 Crash Rate for Normal Flight	2001 F-16 Crash Rate for Normal Flight
fo = fraction of F-16s carrying jettisonable ordnance	0.118	0.118
N = number of aircraft flights transitting Skull Valley /year * fo (fraction carrying ordnance) = 7040 * 0.118 *1	830.72	830.72
C = crash rate/ mile of flight	3.39E-08	3.98E-08
A _{sa} = Effective Area of Storage Area (miles ²)	0.120971792	0.120971792
A _{ctb} = Effective Area of Canister Transfer Building (miles ²)	0.004218638	0.004218638
w = width of flight path in miles	5	5
P = probability of an ordnance striking the PFS facility	7.06E-07	8.28E-07

Notes:

Skid distance equal to that of an F-16.

Impact Angle = 35 degrees

Effective area calculations include the additional 231feet² of effective area to account for the 1/3 second delay

Crash rate for normal flight calculated in State's Exhibit 76.

CLEAR REGULATORY COMMISSION

Docket No. _____ Official Exh. No. 79

In the matter of PFS

Staff _____ IDENTIFIED _____

Applicant _____ RECEIVED

Intervenor _____ REJECTED _____

Other _____ WITHDRAWN _____

DATE 5/15/02 Witness _____

Clerk _____