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TAB B

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A. Contemporary Electro-Mechanical Control Systems

Coded switches or permissive action links (PAL) are electro-mechanical supplements to the administrative controls exercised over nuclear weapon employment. When installed, they make weapon-enabling, or access to the weapon itself, dependent upon code possession. DOE-developed coded switches presently in use, are:

Category A PAL (W50-Pershing) - electro-mechanical coded switch with one four-digit code capability.

Category B and B' PAL (W28-4, B43-2, B53-2 and B61-0 bombs and W72-0 Walleye) - specifically designed for use with an aircraft controller mounted in the cockpit. This device incorporates an electro-mechanical switch with one four-digit code capability.

Category D PAL (B61-2, -5 bombs; W70-1, -2, -3 LANCE; W79 and W82 AFAPs) - multiple code coded switch which provides a selective unlock capability with six 6-digit unlock codes any of which are capable of allowing weapon arming. Although designed originally for the LANCE warhead, this switch is also compatible with aircraft cockpit control features.

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B. Combination Locks

Mechanical tumbler locks have a 5-digit combination to prevent unauthorized use of the weapon in the intended mode (W45 and W54 ADMs; W48 and W33 AFAPs; W31 HONEST JOHN and NIKE HERCULES).

Dept. of State, RPS/IPS, Margaret P. Grafeld, Dir.
() Release (X) Exempt () Deny (X) Declassify
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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1st REVIEW DATE: <u>11/3/05</u>	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <u>50 USC 552</u>	1. CLASSIFICATION RETAINED
NAME: <u>W. D. Le...</u>	2. CLASSIFICATION CHANGED TO: <u>FRD</u>
2nd REVIEW DATE: <u>12/05/05</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>10 CFR 801</u>	4. COORDINATE WITH:
NAME: <u>Schmitt</u>	5. CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
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