

SECTION II

RECEIPT THROUGH LAUNCH

2-1. SCOPE.

2-2. This section contains a general description of the Titan I Weapon System receipt through launch activity.

2-3. MISSILE AND RE-ENTRY VEHICLE INSTALLATION AND CHECKOUT.

2-4. The missile stages and re-entry vehicle are delivered to the complexes on over land trailers. Installation on the launcher is accomplished with a heavy duty mobile crane. As Stage I, Stage II, and the re-entry vehicle are mounted in place, the launcher is lowered a corresponding distance. Upon completion of re-entry vehicle installation the silo doors are closed placing the silo in a hardened condition. Post-installation procedures are performed to bring the two missile stages and re-entry vehicle into a configuration for operational subsystem checkout. After subsystem checkout, the complete system is given a weapon system checkout that is primarily concerned with launcher readiness checks, rocket engine checks, and electrical checks. At this point an optional LOX only exercise may be performed. Then degrease operations, fuel loading, and ordnance installation are performed.

2-5. ALERT STATUS MONITORING.

2-6. The complete weapon system is constantly monitored during alert status monitoring for any malfunction or maintenance requirement. Fuel tanks are kept full, guidance facilities are kept in a ready-state, and the complex is in a hardened operational condition.

2-7. SYSTEM EXERCISES.

2-8. System exercises consist of combined system exercises (CSE) designed to check out the integrated operation of specific weapon system functions. The three CSE modes are fuel exercise, lox exercise, and dry exercise (without launcher movement). The CSE equipment simulates multiple functions during countdown in each mode to facilitate weapon system exercise and checkout through complete launch countdowns.

2-9. TACTICAL LAUNCH (EWO).

2-10. On receipt of a launch order, the combat crews initiate the operations prerequisite to launching. These operations include power house activity, loading of propellant oxidizer, (lox), opening of silo doors, launcher up and locked, guidance lock-on, and final lift-off. The missile's flight is automatically programmed to orient trajectory, in-flight separation of stages at predetermined trajectory positions, and release of re-entry vehicle on a ballistic flight path to the intended target.

2-11. POST LAUNCH.

2-12. Post launch operations consist of launcher lowering, silo door closing to a hardened condition, and shutdown of all power and facilities not required for weapon

system operation in shutdown condition. Refurbishing activities may then be initiated. However, if the launching was an abortive failure, corrective maintenance may be performed to return the missile and complex to an alert status.

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