**Deployment Concept Template**

**1. Introduction**

* **Purpose**: Briefly state the purpose of this document – to define the strategy, processes, and requirements for transitioning the system from development into operational use, ensuring smooth delivery, installation, testing, and readiness for its intended environment. It bridges the gap between system development and operational use.
* **Scope**: Define the boundaries of this deployment concept, specifying what is included (e.g., specific geographical regions, phases of deployment) and excluded.
* **System Identification**: Clearly identify the system or system element that is the subject of this deployment concept.

**2. Background and Context**

* **Operational Vision**: Briefly reference the overarching operational vision (e.g., from the ConOps or OpsCon) that this deployment concept supports, explaining why the system is being deployed.
* **Problem/Opportunity Addressed**: Reiterate the high-level problem or opportunity that the system, upon deployment, is intended to address.
* **Current State**: Describe the existing environment or legacy systems that the new system will integrate with or replace.

**3. Deployment Strategy**

* **Approach to Deployment**: Describe the overall strategy for deploying the system (e.g., "big bang," phased/incremental, iterative, evolutionary, or parallel operation).
  + **Phased Deployment Plan**: If incremental, outline the phases, timelines, and criteria for each phase of deployment, including specific capabilities delivered in each increment.
  + **Legacy System Transition**: Detail plans for replacing or integrating with existing systems, including data migration and minimizing disruption.
* **Key Milestones and Schedule**: Identify major deployment milestones and a high-level schedule, aligning with the overall project master schedule.

**4. Installation and Integration**

* **Site Preparation**: Specify requirements for preparing deployment sites (e.g., infrastructure, network, physical space, facility modifications).
* **System Installation**: Describe procedures for physically and logically installing the system hardware and software at deployment sites. This includes transportation and handling considerations.
* **Integration with Existing Infrastructure**: Detail how the new system will integrate with existing systems, networks, or operational environments. This should reference the Interface Concept.
* **Software Deployment Patterns**: For software-intensive systems, specify patterns for how software will be deployed onto computing infrastructure.

**5. Testing and Acceptance**

* **Deployment Testing Procedures**: Outline the testing procedures to verify that the system functions as intended in its operational environment after installation. This includes Site Acceptance Testing (SAT).
* **Acceptance Criteria**: Define the specific criteria that must be met before the system is formally accepted by the customer or operational organization.
* **Verification & Validation (V&V)**: Describe how verification and validation activities will be conducted during and after deployment to ensure the system meets requirements and stakeholder needs in the operational setting.

**6. Training and Documentation**

* **Training Plan**: Outline the strategy for training users, operators, maintainers, and support staff. This should include initial training, refresher training, and any specialized training required for specific roles. (Refers to the Training Concept).
* **Documentation Plan**: Specify what documentation will be provided to support ongoing use, maintenance, and troubleshooting (e.g., user manuals, operator guides, troubleshooting guides).

**7. Support and Maintenance Transition**

* **Support Model**: Describe how responsibility for system support and maintenance will be transferred from the development team to the operational support organization. (Refers to the Sustainment Concept).
* **Logistics and Staffing**: Detail the desired support infrastructure, logistics, and staffing considerations needed post-deployment. This includes planning for spare parts, maintenance strategies, and personnel.

**8. Decommissioning and Disposal Considerations**

* **End-of-Life Planning**: Provide initial considerations or cross-references to the Disposal Concept for how the system will eventually be decommissioned and disposed of. This highlights that disposal planning begins early.

**9. Risks and Assumptions**

* **Key Deployment Risks**: Identify major risks associated with deployment (e.g., integration challenges, site readiness issues, user adoption resistance, security vulnerabilities). (Refers to the Risk Management Concept).
* **Mitigation Strategies**: Outline plans to mitigate identified deployment risks, ensuring traceability to requirements and design.
* **Assumptions**: Document any underlying assumptions that the deployment concept relies upon (e.g., availability of personnel, stable network infrastructure).

**10. Traceability and References**

* **Traceability**: (Optional but Recommended) A matrix to map deployment activities to system requirements, operational scenarios, and other related concepts.
* **References**: List all source documents, standards, related concepts (e.g., ConOps, OpsCon, System Concept, Interface Concept, Training Concept, Sustainment Concept, Disposal Concept, Risk Management Concept, Cost and Schedule Concept), and other artifacts that inform this Deployment Concept.

**Recommended Representations**

The Deployment Concept can be effectively represented through a combination of:

* **Narrative Text**: For providing detailed descriptions, rationale, and context.
* **Tables**: For summarizing phases, acceptance criteria, resource needs, and responsibilities.
* **Diagrams**: Such as high-level network diagrams, site layouts, phased rollout timelines, or workflow diagrams to visually represent the deployment sequence and interactions. These visuals significantly improve communication and understanding.

This template ensures all essential aspects of system deployment are captured, facilitating stakeholder alignment and ensuring a successful transition into operation.