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and Evaluation of Resource Constraints: Optimization of AFTAC's Configuration Management Process

Resource constraints impact the cost effective and timely execution of seismic sustainment activities. An analysis of AFTAC configuration management processes identified deficiencies in baseline plan development, monitoring procedures, and resource allocation. Through decomposition of work scope into its lowest manageable level, project engineers and configuration managers were able to assess the time phased labor cost of their efforts supporting Engineering Change Orders (ECOs). The time phased labor budget constituted the performance measurement baseline (PMB) which serves as the basis for monitoring past performance and developing predicative metrics. Resource loaded project schedules modeled critical resource constraints affecting installation schedules with the potential to impact data availability rates. Future resource demand rates were also tracked across project lifecycles to facilitate management efforts to mitigate resource bottlenecks and monitor workflow. Prior performance against the PMB is a basis for more reliable estimate of future project performance. This metric-based process for monitoring and controlling project execution will decrease AFTAC lifecycle costs by helping mitigate inefficient resource allocations, forecast accurate installation and procurement schedules, and optimize engineering processes.

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