National SCADA Test Bed

POSSIBLE THREATS → THREAT ANALYSIS → CYBER EFFECTS ANALYSIS → SYSTEM IMPACT ANALYSIS → CONSEQUENCE ANALYSIS → RISK ANALYSIS → U. S. NATIONAL RISK

EMERGING THREATS

EXPLOITED VULNERABILITIES

ADVERSARY INTENT

SOPHISTICATED THREATS

Threat Analysis

The ability to discover and understand emerging threats and vulnerabilities is a prerequisite to developing effective countermeasures

Challenge / Approach

Characterize Threat from Open and Closed Sources

Assess ease with which vulnerability information can be discovered

Discover Active Adversary Intent

Benefits

Taxonomy for sharing threat profiles

Evidence that an adversary can learn "bad" things on the "open web"

Precursors to adversary's intent

A means to measure threat for better allocation of mitigation resources

Sandia National Laboratories

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under Contract DE-AC04-94AL85000.

NNSA National Nuclear Security Administration