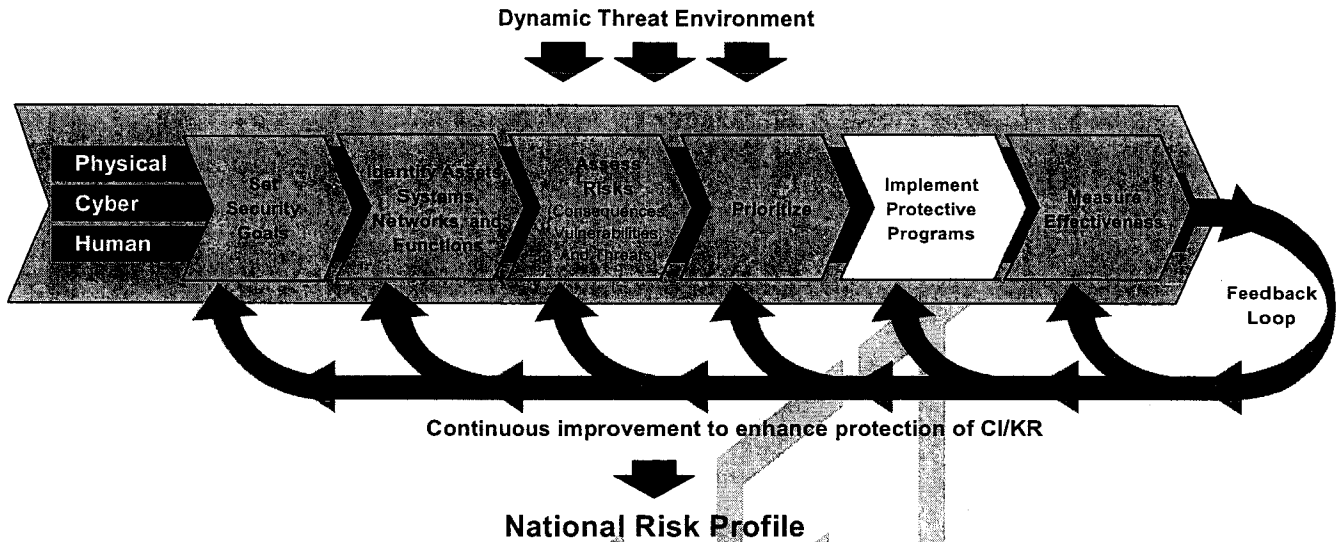


1 **5 Develop and Implement Protective Programs**

2

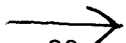


3

**National Risk Profile**

4 The minimum required security posture for commercial nuclear power plants and Category I  
 5 SNM that is the responsibility of the owner/operator is defined by NRC regulation, based upon  
 6 the DBT. The DBT elements and characteristics represent the largest spectrum of threats  
 7 against which private sector facilities must be able to defend with high assurance. The DBT  
 8 elements and characteristics form the design basis for physical security, defensive strategies,  
 9 and guard force size and capabilities. The NRC rigorously inspects and tests the ability of these  
 10 facilities to meet the DBT through inspection, force on force exercises and other means. This  
 11 ensures that these facilities are demonstrably prepared to defend themselves. Any additional  
 12 protective measures to defend against threats beyond the DBT are the responsibility of the  
 13 Federal government in coordination with State and local governments, as well as  
 14 owner/operators working together in a cooperative and collaborative manner.

15 The nuclear industry, the NRC, and DHS recognize this delineation of private and public  
 16 responsibility. DHS reviews all threats including those that affect nuclear power plants and is  
 17 responsible for establishing appropriate responses to those threats. Through the performance  
 18 of CRs at commercial nuclear power plants and other CI/KR, DHS is identifying additional  
 19 measures that will enhance the protection of CI/KR against a broad spectrum of threats.



**INSRT**

20 For more than 25 years, NRC regulations have required rigorous security programs at certain  
 21 nuclear facilities. Licensees have implemented these programs such that nuclear facilities are  
 22 among the best-defended and most hardened commercial facilities in the Nation. Following the  
 23 attacks on September 11, 2001, NRC required security enhancements. The security  
 24 enhancements include measures to provide additional protection against vehicle bombs, as well  
 25 as water and land-based assaults. The NRC also required nuclear facility licensees to assess  
 26 the potential impact of a terrorist-initiated event on site emergency plans. Additionally, the  
 27 NRC's emergency preparedness experts routinely observe security exercises to assess and

1 improve the interface between security plans and emergency plans. The NRC has substantially  
2 increased coordination with Federal, State, and local agencies.

3 A protective program is a coordinated plan of action to prevent, deter, and mitigate terrorist  
4 attacks on critical assets, and to respond to and recover from such acts as quickly and  
5 effectively as possible. With cooperation from the public and private sector partners, DHS  
6 serves as the national focal point for the development, implementation, and coordination of  
7 protective programs, including cyber security efforts, for those assets that are considered critical  
8 on the national scale.

9 Nuclear power plants in the United States are owned and operated by a variety of entities. For  
10 decades, these facilities have been licensed and regulated by the NRC. The NRC has the  
11 responsibility for protecting public health and safety, the environment, and the common defense  
12 and security from the effects of radiation from commercial nuclear reactors, materials, and  
13 waste facilities. To accomplish this goal, the NRC established a regulatory program containing  
14 requirements that must be implemented by licensees at nuclear power plants to protect the  
15 spent fuel and the power plant against radiological sabotage.

16 Commercial nuclear power plants have security measures in place to defend against a broad  
17 spectrum of potential terrorist threats, which are designed to prevent the release of radioactive  
18 material into the environment. The many layers of protection offered by robust plant design  
19 features, sophisticated surveillance equipment, physical security protective features,  
20 professional security forces, and access authorization requirements provide an effective  
21 deterrent against potential problems related to terrorist activities that could target equipment  
22 vital to nuclear safety. Were a terrorist attack to inflict damage on a nuclear plant, the  
23 redundant design features and the high level of training would likely result in actions taken by  
24 the plant staff to prevent or minimize the release of radioactive material. The emergency  
25 response plans would also provide for protective actions for the surrounding population were a  
26 release to occur.

27 The NRC has a continuing inspection program to review the security program at each nuclear  
28 plant to ensure safety, security, and continued compliance with NRC regulations. The NRC also  
29 has a regulatory program containing requirements for the physical protection of licensed  
30 materials at fuel cycle facilities and stored spent fuel at ISFSIs. Transportation of spent nuclear  
31 fuel and other high-activity shipments is protected using a variety of security measures.

32 As part of the national effort to protect CI/KR, DHS/RMD assists State and local authorities, and  
33 private industry, in developing BZPPs. The purpose of a BZPP, and protective measures  
34 planning in general, is to develop effective preventive measures that make it more difficult for  
35 terrorists to conduct surveillance or launch attacks from the immediate vicinity of CI/KR targets.  
36 In the case of a nuclear power plant, the BZPP concept defines a buffer zone outside of the  
37 facility's owner-controlled area. DHS contributes to the security measures in this sector through  
38 the application of the BZPP to augment security provided by plant operators. This plan engages  
39 local law enforcement agencies (LLEAs) to provide an additional layer of planned protection for  
40 facilities in this sector.

## 41 **5.1 Overview of Sector Protective Programs**

42 The Nuclear Sector plans to reduce risk by implementing protective programs. All previous risk  
43 management steps, including identifying assets, systems, networks, and functions, assessing