

NAC REPORTER

Secure, adaptable, and efficient system for tracking nuclear material

In the early 1990s NAC redesigned and rebuilt the U.S. nuclear material control and accounting (MC&A) system. The system operated under three separate sets of accounting rules, integrated into one platform, and was designed to meet the needs of

- DOE, including its weapon facilities
- NRC for the commercial industry
- International reporting requirements of the IAEA and U.S. trading partner countries (obligations tracking).

Following the NAC redesign, the U.S. system became much more efficient, more accurate and easier to use. NAC used its application development and operating experience to develop commercial MC&A software. NAC offers this highly specialized MC&A software, **NAC Reporter**, to countries and facilities around the world.



KEY POINTS:

- NAC's experience operating and improving nuclear MC&A systems makes the company a uniquely qualified expert in this area.
- *NAC Reporter* reduces system costs substantially while improving ease of use and data accuracy.
- Designed for adaptability and flexibility, *NAC Reporter* software can be readily modified for a country's unique requirements.
- *NAC Reporter* provides a very secure, proven platform for effective and efficient nuclear material tracking

**“Most importantly, using
NAC Reporter will mean
lower costs and more
confidence
in the information.”**

IMPROVING EFFICIENCY AND ACCURACY

Based on extensive operational experience, NAC understood it could substantially improve efficiency and system accuracy by automating and improving the software. These improvements offer the potential for substantial cost savings and more confidence in the system's accuracy.

Seeing new countries develop a nuclear power sector, NAC decided to invest in developing the *NAC Reporter* to meet requirements for tracking nuclear materials.

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Some countries require nuclear material supplied or used in major equipment supplied by them to be separately tracked (obligations). Obligations accounting can be complex due to the varying requirements of countries and the layering of obligations (some fuel may be obligated to multiple countries). The list of countries and organizations requiring obligation accounting includes the United States, the European Union, Australia, Canada, and Japan, and is likely to expand in the future. NAC has a deep understanding of obligations tracking and designed the software to easily meet the requirements, a feature that differentiates *NAC Reporter*.



ENHANCED DATA SECURITY

Nuclear accounting information is sensitive, and access is tightly controlled. To assure data security, users perform rigorous cyber security penetration testing of the application. *NAC Reporter* has passed each such test.

READILY ADAPTED FOR ANY COUNTRY

The *NAC Reporter* software also was designed so it can be adapted and modified for any country's special or unique requirements (including different required languages). In addition, *NAC Reporter* is unique because it has been designed to function as a facility system as well as a state system.



NAC has delivered a facility system to a middle eastern country and is in the process of delivering another facility system for use in Kazakhstan. NAC is also in the final stages of the development of a customized state system for use in Kazakhstan. This system can be viewed in English, Russian and Kazakh, and the application is designed to allow other languages to be added. NAC is also developing a customized state system for the United Kingdom and recently signed a contract to supply a state system to another country in the Middle East.

ABOUT NAC INTERNATIONAL

NAC International Inc. (NAC) has been a trusted partner for fuel cycle management solutions and consulting for over 50 years. NAC, subsidiary of Hitachi Zosen Corporation, now serves more than 200 customers, including the world's leading nuclear organizations, and supports a host of diverse projects around the globe.



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