Systematic Approach on Training and Professional Development Specialists of Physical Protection, Accounting and Control of Nuclear Materials in Ukraine

Nataliia Klos

Ministry of Energy and Coal Industry of Ukraine
Government policy on physical protection:

Recognition of individuals with regard to regulation and implementation of **physical protection profession** in the field of nuclear energy and radiation safety.

The creating of **State system** of training, retraining and professional development of specialists in physical protection, accounting and control of nuclear materials.
The number of MPC&A specialists on Ministry of Energy and Coal Industry example

<table>
<thead>
<tr>
<th>Specialists</th>
<th>Fuel and Energy Sector</th>
<th></th>
<th></th>
<th></th>
<th>Coal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ministry Headquarters</td>
<td>Nuclear Industry Sector</td>
<td>Power Generation Sector</td>
<td>Oil and Gas Industry</td>
<td>Power Industry</td>
<td></td>
</tr>
<tr>
<td>Physical Protection</td>
<td>7</td>
<td>663</td>
<td>-</td>
<td>7</td>
<td>15</td>
<td>692</td>
</tr>
<tr>
<td>NM Accounting and Control</td>
<td>5</td>
<td>37</td>
<td>3</td>
<td>-</td>
<td>38</td>
<td>83</td>
</tr>
<tr>
<td>Guard personnel</td>
<td>-</td>
<td>453</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>453</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
<td>1153</td>
<td>3</td>
<td>7</td>
<td>53</td>
<td>1228</td>
</tr>
</tbody>
</table>
Handbook of human qualification to professions of employees

Requirements to the physical protection departments and personnel

Requirements to personnel
Cabinet Decree 21 March 2012 no. 227 “On Amendments to the List of Professions that are trained in universities for education and skill levels of specialist and master degrees” created a new specialty "physical protection, accounting and control of nuclear materials 7.05060303"
Components of the State System

- Educational institutions
- Education levels
- Subjects of the System
- Frequency of professional development training and testing
- Professional development candidates are identified
Subjects of the System

- State Nuclear Regulatory Inspectorate of Ukraine
- Ministry of Education and Science of Ukraine
- Ministry of Energy and Coal Industry of Ukraine
- State Agency of Ukraine of the exclusion zone
- The National Academy of Sciences of Ukraine
- State Service of Ukraine of Emergency Situations
- Security Service of Ukraine
- State Service of Ukraine of Emergency Situations
- Higher education institutions, training centers for professional development
# Educational institutions

- Identified by Ministry of Science and Regulatory body based on established criteria

- Key institution of higher education for training and retraining of specialists

- Key institution for professional development of specialists

- Other educational institutions and professional development centers
Higher education

Training and retraining

Professional development

Initial training and periodic staff training on the facilities
Professional development candidates are identified

Frequency of professional development training and testing
Issues and plans that need to be resolved

1. Implementation new specialty “Physical protection, accounting and control of nuclear materials”, the formation of students interested in the new specialty.

2. Financial support for training, retraining and professional development of specialists in accounting and control of nuclear materials. Fostering interest of licensees for the training of their specialists.
1. Ukraine has created the **State system** for professional training, retraining and professional development of specialists in physical protection, accounting and control of nuclear materials.

2. Ukraine has founded **profession** physical protection, accounting and control of nuclear materials.
FINISH STUDYING??

GOOD
Thank you for your attention!
Questions?