SPECIAL OCCUPATIONAL SAFETY SYSTEM ADAPTED TO RADIATION HAZARDS

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Abstract: *At work radiation and core safety scientific - technical in the centers work protection to do system improvement, employees health protection to make, ionizing radiation with related risks reduce and human activity safety increase issues illuminated. Modern technologies, risks assessment system, dosimetric control and security culture development priority directions analysis made.*

Key words: *radiation security, nuclear safety, work protection to do, dosimetric control, security culture, risks management.*

Radiation and core safety in the field activity driver scientific and technical centers high level danger factors with described. Ionizing radiation sources , radioactive substances , laboratory equipment and special technological processes from employees high qualification and strict security to the rules compliance to reach demand Therefore , labor protection to do

system modern requirements based on improvement , risks reduce and human health protection to do current from tasks is one [1].

Scientific and technical in the centers work protection to do system complicated and many step by step process is , it works release safety supply , employees health protection to do and radiation and man-made risks to minimize aimed at complex organizational measures complex own inside Especially radiation and core safety in the field activity driver in institutions work protection to do system general industry safety from the requirements except , special radiation security [2-6] .

Such in the centers work protection to do system following main in directions organization to be must :

First , labor protection to do according to internal normative documents working exit and them regular accordingly updated to go important importance has . This documents current national legislation , sanitation standards , radiation security rules and international standards requirements appropriate to be necessary . Internal regulations , instructions , techniques safety rules and position instructions of employees clear tasks and responsibility circle by designating gives [7-10].

Secondly, employees to work acceptance in doing mandatory medical from the examination transfer radiation in the environment to work suitability of determination main from the conditions is one. The initial and periodic medical examinations through of employees health control is done , profession diseases took is taken and radiation to the effect sensitive individuals This process is determined . employees health far term protection to do service does.

Third, dangerous work to the types permission to give system current to do high danger to the level has operations strict control under to do provides . Special on the basis of a permit (naryad-dopusk) done increaseable affairs from a prior risk analysis is held , necessary protection measures see by

designating is taken and responsible individuals This is random errors and of lack of control prevent takes .

Fourth , emergency in situations movement plans working exit and them regular from the test transfer necessary . Radiation accident , radioactive of substances spill or other man-made events to the surface when it arrives of employees fast and right movement to do human life and health save while staying solution doer importance profession Evacuation schemes , communication system , warning tools and special protection tools always ready to be need .

In general in short , systematic approach based on organization done work protection to do system labor conditions continuous monitoring , production release processes analysis to do and danger sources early determination opportunity gives . Risks assessment and management mechanisms current to be and radiation security level increases and scientific and technical center of activity stable and safe to be carried out provides .

Human activity safety Improvement : Human factor core and radiation in safety important place holds , because man-made of events big part human error with It depends . Therefore for human activity safety increase systematic approach demand will reach .

Safety first . culture formation necessary . Every one employee security to the rules conscious accordingly compliance to do and personal sense of responsibility must . Permanent qualification increase and practical trainings of employees knowledge and skills strengthens , especially emergency in situations right movement to do provides . Work their places comfortable and safe work for organization to grow fatigue reduce labor productivity and security level increases .

Digitization and innovative Technologies : Labor protection to do system in improvement digital and innovative technologies important importance profession Modern automated radiation monitoring systems

employees and in the environment radiation level permanent control does this and dangerous situations early to determine opportunity gives .

Remote control and signaling devices employees danger about fast warns and emergency in situations fast answer to give opportunity creates . Also , electronic magazine and report systems through all work processes , risk factors and control results centralized without record is done , this and document and analysis process simplifies .

Such digitized approach human factor because of to the surface coming mistakes reduces , safety increases and center activity fast and effective to manage provides .

Conclusion : Labor protection to do and human activity safety provide - a lot step by step and complex process is , it is organizational , technological and psychological measures own inside takes . Modern management systems , security culture development , as well as digitization and innovative technologies current to grow through danger level noticeable at the level reduce possible .

Work protection to do system continuous improvement employees health protection to do , to work release processes stability provision and core safety reinforcement the most important factor is considered . This with together , human factor effective management and of employees readiness increase center of activity safe , stable and effective to be guarantees.

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