Workover HSE plan

|  |  |  |
| --- | --- | --- |
| Company  | RWE Gas Storage, s.r.o. | Klikněte sem a zadejte text. |
| Name | Klikněte sem a zadejte text. | Klikněte sem a zadejte text. |
| Position | Klikněte sem a zadejte text. | Klikněte sem a zadejte text. |
| Date |  |  |
| Signature |  |  |

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# Policies and Targets

Policies and Targets in the field of safety and health at work and environmental protection are stated in **Annex 1 (RWE GS)** of this HSE Plan.

## Purpose of the HSE Plan

## HSE Plan meets the requirements arising from the Czech legislation and internal regulations and policies of RWE Gas Storage, s.r.o.

## HSE plan is intended for implementation, clarification of competencies, responsibilities, and obligations under the Terms and Conditions of RWE ČR.

## Applicability of the HSE Plan

The HSE Plan applies to the well workover (POS) sites for which it has been approved and is binding for all employees of contractors and RWE GS at the well workover sites.

By instructing the employees of the contractors and RWE GS of the HSE Plan,

* the risks will be provably handed over and the risks and measures will be provably communicated before their becoming applicable;
* the measures for managing emergencies will be provably communicated

during the well workovers.

## Basic Principles

* We want to avoid accidents!
* We will not work unless the situation is safe!
* We will set an example!
* We keep our eyes open and never look aside!
* We treat the contractors’ employees as our own!

## Targets of the Company in HSE

We want all employees to go home as healthy as they arrived and we want to protect the environment.

# Organization Structure

**For the organizational structure of RWE GS see Annex 3.**

# Powers and Responsibilities

## RWE Gas Storage

### Head of Asset Operations

* Answers for the HSE Plan implementation and observance and for the plan being up-to-date;
* Makes sure that all his concerned subordinates are instructed in the HSE Plan.
* He signs the HSE Plan.

### HSE Representatives

* Participate in the HSE Plan preparation;
* Verify periodically the HSE Plan for being up-to-date and update it;
* Implement the conclusions from the final report to the HSE Plan;
* Observe the approved HSE Plan;
* Evaluate the inspection reports and audit reports.

### Well Workovers Supervisor

* Is familiar with the requirements of HSE plan;
* Monitors activity on the basis of HSE Plan and addresses deviations with POE or H&S and fire protection technician of the plant or with the HSE representatives;
* Supports all employees in the workplace in reporting deviations from the HSE Plan and dangerous conditions that threaten the health, safety and the environment.
* Observes the approved HSE Plan.
* Sets an example to other employees.

### Site Representatives

* Are informed of the HSE Plan;
* Are obliged to observe the HSE Plan and carry out the activities according to it;
* Set an example for other employees.

### Other Employees

* Are obliged to familiarize themselves with the relevant part of the HSE Plan;
* Observe the approved HSE Plan.

### Sub-contractors Employees

* Are obliged to familiarize themselves with the HSE Plan;
* Observe the approved HSE Plan.

# Safety and Health at Work, Fire Protection

## Risk-Involving Activities during Well Workovers

The risk-involving activities were identified based on risk assessment under the regulation RWE ČR RWECZ\_SM\_ C16\_02\_01 Principles of the organization of health and safety at work.

* Work on gas equipment under pressure
* Work at height and over non-covered depth
* Crane work
* Slinging
* Welding, Cutting
* Using power generators and distribution systems
* Work with hand electrical equipment
* Work with forklift truck
* Handling chemical substances and preparations
* Transport of dangerous items by road
* Transport of materials and substances under pressure (in the pipeline, in hoses)
* The use and storage of pressure vessels
* Work with high-pressure cleaning devices
* Manual handling of heavy loads
* Unloading and loading of vehicles
* Stacking of material
* Pressure tests
* Driving motor vehicles
* Work with RI emitters

## Risks Arising from Risk-Involving Activities

### Work on gas equipment

|  |  |
| --- | --- |
| Risk | Measure |
| Fire Explosion Accident (mechanical injury) Injury (intoxication, suffocation) | Performing work by persons with appropriate qualifications Working on the basis of an approved written documentation Checks of the environment (presence of gas) Using PPE Using machinery, equipment and tools in good working condition and designed for the environment (zone 2,1,0) |

###  Work in height and over non-covered depth – work involving increased risk

|  |  |
| --- | --- |
| Risk | Measure |
| Injury or injury to another personFall of a persons Falling objects, fall of the burden | Performing work by persons with appropriate qualifications Using PPECompliance with operational procedures and instructions of the responsible staff Definition of the danger area Preventing unauthorized access to the danger area The use of harnesses, ropes and equipment in good working order |

### Crane and slinging works

|  |  |
| --- | --- |
| Risk | Measure |
| Falling objects, fall of the burdenInjury or injury to another personSlipping or tipping over of the burden | Performing work by persons with appropriate qualifications Properly fastened and secured burdenUsing PPEThe use of harnesses, ropes and equipment in good working order Paying attention to work only (prohibited use of a phone etc.) |

### Welding, cutting

|  |  |
| --- | --- |
| Risk | Measure |
| ExplosionFireInjury  | Performing work by persons with appropriate qualifications Performing works approved by written documentation (work order, "V”- order, Workflow) Work order is issued by the well workovers supervisor with the authorization of the Plant Manager in accordance with **Annex 13** Inspection of the environment for the presence of hazardous substances Using PPE Using machinery, equipment and tools in good working condition |

### Using power generators and distribution system

|  |  |
| --- | --- |
| Risk | Measure |
| Electrical injuryExplosionFire | Performing work by persons with appropriate qualifications Properly installed and secured electrical wiring Using PPE Using machinery, devices and wiring in good technical condition and designed for the environment (zone 2,1,0) |

### Work with hand electrical equipment

|  |  |
| --- | --- |
| Risk | Measure |
| Electrical injuryInjury (mechanical damage to heExplosionFire | Performing work by persons with appropriate qualifications Performing works approved by written documentation Work order is issued by the well workovers supervisor with the authorization of the Plant Manager in accordance with **Annex 13** Using PPEUsing machinery, devices and wiring in good technical condition and designed for the environment (zone 2,1,0) |

### Work with forklift truck

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health ) Fall of the burden Slipping, tipping over of the material Collision of a person with a forklift Collision of with a transport vehicle or other mechanization | Performing work by persons with appropriate qualifications Using PPEUsing forklifts in good technical condition Properly fastened and securedObserving the reduced speed on the company premises |

### Handling chemical substances and preparations

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (damage to health, chemical burns, intoxication, burns Explosion)FireDamage to the environment | Storing chemicals in a designated place securing them against misuse and leakage into the environment Understanding the rules for the handling of chemicals and consistent adherence to such rulesWhen handling chemicals that are not included in the rules, follow the instructions given in the safety data sheet Using PPE Effective ventilation when working with chemicals |

### Transport of dangerous items by road

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (damage to health, chemical burns, intoxication, burns)ExplosionFireDamage to the environmentCollision of with a transport vehicle or other mechanization | Performing work by persons with appropriate qualifications Using PPEUsing vehicles intended for transporting dangerous items by road Using containers and tanks intended for transporting dangerous items Compliance with ADR |

### Transport of materials and substances under pressure (in the pipeline, in hoses)

|  |  |
| --- | --- |
| Risk | Measure |
| Injury ExplosionFireDamage to the environment | Using PPEUsing pipes and hoses in good condition designed for the type of the transported material All joints must be secured against separation during transport |

### The use and storage of pressure vessels

|  |  |
| --- | --- |
| Risk | Measure |
| Destruction of the pressure vessel Leakage of the mediumInjury (mechanical damage to health, chemical burns, intoxication, burns) Explosion Fire Damage to the environment | Performing work by persons with appropriate qualifications Using PPEDo not expose the pressure vessel to mechanical and thermal stressUsing pressure vessels in good technical condition Secure the pressure vessel against fall and damage |

### Work with high-pressure cleaning devices

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health, burns)  | Using PPEUsing equipment in good working condition Preventing unauthorized entry to the working site |

### Manual handling of heavy loads

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (damage to health)  | Using PPEManipulating only loads of the maximum permitted weight |

### Unloading and loading of vehicles

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health) Fall of the burdenSlipping or tipping over of the material | Using PPEUsing machines, tools and instruments designed for loading and unloading in good technical condition Definition of the danger area Preventing unauthorized entry to the defined area |

### Stacking of material

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health) Fall of the materialSlipping or tipping over of the material | Using PPEUsing storage devices (racks) in good technical condition Stacking the material in packaging designed for stacking Secure the material against falling, slipping and tipping over Storing and disposing of the material in designated areas |

### Movement of persons about the working site

|  |  |
| --- | --- |
| Risk | Measure |
| Fall, slipping | Railings at a height of 1.5 m above the ground Straight and undamaged surface of landings and stair treads Maintaining free space to ensure safe passage Non-slip strips, stops Holding on the handrails during ascent and descent, maintaining of non-slip surfaces Shoes with non-slip soles |

### Pressure tests

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health) DestructionDamage to the environment | Using PPEUsing valves, pressure gauges, hoses and pipes intended for pressure tests in good technical condition Securing the hoses and pipes at joints against separation Definition of the danger area pressure tests Preventing unauthorized entry  |

### Driving motor vehicles

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health) Collision of a person with a vehicle Collision of a vehicle with another vehicle or mechanization Damage to the environment | Performing work by persons with appropriate qualifications Movement of persons on designated roads Movement of vehicles on designated roads Observing the speed limit Using vehicles in good technical condition |

### Work with RI emitters

|  |  |
| --- | --- |
| Risk | Measure |
| Injury (mechanical damage to health, irradiation)  | Using PPE Using dose meters for defining the radiation doseComplying with the maximum permitted radiation doseStoring RI emitters in cases designed for it and securing against damage and theftObserving technological procedures during the works  |

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## Ensuring Fire Protection

Activities with increased fire hazard as defined in Section 4(2)a) of Act 133/1985 Coll., storing of diesel fuel, are conducted at the working sites or well workover rigs. For this reason, the Fire Protection is ensured by means of:

* establishing preventive fire patrols manned by employees of RWE GS.
* equipping the work workover working sites with fire protection equipment consisting of fire extinguishers: 8 pcs of portable powder extinguishers with 6 kg of extinguishing agent, 2 pcs portable CO2 extinguishers with 5 kg extinguishers and 1 mobile powder extinguisher with 50 kg of extinguishing agent,
* compliance with the conditions of Fire Safety for works with open flame in accordance with Section 81 of Decree No. 239/1998 Coll.

## Dangerous Environment

**Zone 1** is established around wellhead with one barrier (mud in well) in area 5 m, next area 15 m is protected area.

**Zone 2** is established around wellhead with two barriers (closed preventer and mud in well) in area 5 m, next area 15 m is protected area.

**Zone 1** is established around natural gas exhausters in area 1,5 m

Zones must be properly signed at site and drawn in layout, which is part of a workover program

## First Aid Kit

**First aid kit is placed at the drilling manager of the well workovers, which must include pharmaceuticals and materials according to Annex 11 of this HSE Plan.**

## Protective Equipment

**Protective equipment for each activity is specified in Appendix 5 of this HSE Plan.**

# Emergency Preparedness

## Emergencies

For UGS sites where a work repair is in process, the contractor must prepare procedures for managing emergencies and serious conditions listed in Section 18(3) b) to h) of Czech Mining Authority Decree no. 239/1998 Coll.:

1. dangerous pressure manifestation;
2. the presence of water under pressure or combustible gas not expected in the project and the occurrence of acid gas;
3. leakage of oil, gas or liquids into the environment, which has resulted in air pollution or the contamination of water or soil above the limits stipulated by special legislation9);
4. loss of radioactive sources and proven leak of sealed source;
5. breaking into a warehouse of explosives, theft or finding of explosives;
6. death of a person on the premises or at the workplace;
7. search for missing persons.

A person representing the contractor qualified for the dealing with pressure manifestations according to Section 11(4), Decree No. 239/1998 Coll., must be present at the well workover work sites. In emergency (serious) situations, serious operational accidents, hazardous conditions and serious accidents at work, see Section 18, Czech Mining Authority Decree no. 239/1998 Coll., (excluding major event under paragraph 3a) eruptions), the responsibility for emergencies managing is in the responsibility of the well workovers contractor.

Emergencies, serious situations and hazardous conditions listed in Section 18(3) b) to h) of the Czech Mining Authority Decree no. 239/1998 Coll., are reported by the representative of the well workovers contractor to the RWE UGS Plant Manager. The reporting duty is in the sole responsibility of the RWE UGS Plant Manager.

### Well Eruption under Section 18 a) of Czech Mining Authority Decree no. 239/1998 Coll.

In the event of eruption (with or without a fire) at UGS, the contractor is obliged to immediately inform the TDO and subsequently the inspection service of RWE GS UGS, which proceeds according to the RWE GS UGS Emergency Plan. Until the arrival of the emergency response manager (VLH) of the RWE GS UGS, the response is managed by IS RWE GS UGS in order to the rescue safely the persons and the property.

The cooperation with the well workovers contractor is covered by the Emergency Plan (EP) of RWE GS UGS.

EP of RWE GS UGS must be stored at the workplace of the inspection service (IS) of the RWE GS UGS, including the map appendix, of which IS of RWE GS must be provably instructed.

The contractor’s representatives must be provably instructed in EP of GS UGS and the procedures for dealing with emergencies, serious situations and dangerous conditions listed in Section 18(3) a) of Czech Mining Authority Decree no. 239/1998 Coll.

Before starting the works, the contractor’s representative qualified for dealing with pressure manifestations will be appointed by the RWE UGS Plant Manager as a member of emergency committee for dealing with well eruption during the well workovers.

### Requirements for the Well Workover Rig Equipment

Any equipment of the contractor fitted at the well head must comply with the requirements of the Czech Mining Authority Decree no. 239/1998 Coll., Sections 43, 51.

Any other equipment of the well workover rig must comply with the requirements of Sections 42-46 of Czech Mining Authority Decree no. 239/1998 Coll., as preventive measures for avoiding eruptions.

### Emergency Store

Based on a contract for the assurance of mining rescue service, RWE GS disposes of equipment and means for managing emergencies – well eruptions in the emergency store of the Main Mining Rescue Service (HBZS) Moravská 219., 696 19 Mikulčice.

### Mine Rescue Service

The Mining Rescue Service according to Czech Mining Authority Decree no. 447/2001 on Mining Rescue Service is provided by the Main Mining Rescue Station Hodonín and the Local Mining Rescue Station Lobodice based on the contract for mining rescue service provision.

### Communication during Accident

**The communication scheme in case of accident is included in Annex 6 of this HSE Plan. This scheme must be placed visibly at the workplace of the well workover drilling manager.**

## Environmental Accident

Under the Water Act, the following are considered environmental accidents:

* Exceptionally serious deterioration or extraordinary serious threat to the quality of surface water or groundwater.
* Serious deterioration or extraordinary threat to the quality of surface water or groundwater by contamination by oil substances, especially hazardous substances or radioactive sources and radioactive waste, or if there is a deterioration or threat to the quality of surface water or groundwater in the Protection Area of Natural Accumulation of Waters (CHOPAV) or in the protection zones of water resources.

Furthermore, the leakage of more than 333 l of methanol and Natural 95 petrol and more than 1,000 l of diesel fuel or other substances falling into the transport category 2 and 3 according to chapter 1.1.3.6.3 of ADR is considered an environmental accident.

Also cases where there is physical damage to the environment during transport of dangerous items and the estimated amount of damage exceeds EUR 50000 are considered environmental accidents.

Action to be taken in case of accident or imminent threat of emergency must be defined for specific conditions of the well workover in the Plan of measures for environmental accidents.

Emergency plans for environmental accidents must be available on the well workover site.

The procedure in the event of an environmental disaster caused by the sub-contractor of RWE GS at a well workover site is based on the Emergency Plan for environmental accidents and the accident is managed by the employees of the concerned plant.

The procedure in the event of an environmental disaster caused by a contractor or contractor’s sub-contractor, proceed on the basis of the Emergency Plan for environmental accidents UGS.

Emergency kit for managing any environmental accidents must be stored at the well workover site.

# Information to Third Parties

Before the start of work at the well workover, the representative of the client i.a. informs in writing:

* the representatives of the concerned municipalities
* the fire and rescue unit in charge
* the department of the Police of the Czech Republic in charge
* the rescue service
* the dwellers in the well protection zone
* any other involved parties as necessary

# Environmental Protection

The contractor is obliged to carry out all activities in such a way that all negative environmental impacts are avoided.

## Waste Management

### List of waste created during well workover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Waste | Cat. no. | Category  | Dangerous properties | Expected volume per well |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

### Method of Waste Collection and Disposal

The waste created at the well workover rigs is collected, recorded and disposed of according to the Waste Act No.185/2001 Coll. and Decree no. 381/2001 Coll.

Hazardous and other waste will be collected in rigid containers designed for this purpose.

Waste will be then handed over to a specialist company for disposal.

## Air Protection

**Annex 9 of this HSE Plan includes a list of Air Pollution Sources used at the well workover site.**

## Water Protection

### List of hazardous and harmful substances

|  |  |  |
| --- | --- | --- |
| **Substance**  | **Category under the Act** | **Expected volume** |
|  |  |  |
|  |  |  |

### List of harmful substances

|  |  |  |
| --- | --- | --- |
| **Substance** |  | **Expected volume** |
|  |  |  |
|  |  |  |

### Description of Storing of the above Mentioned Substances

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## Chemical Substances and Preparations

### Obligations when Handling Chemical Substances and Preparations

* Storing chemical substances and preparations in accordance with the instructions set out in the Safety Data Sheets.
* Only demonstrably instructed employees may handle chemical substances and preparations.
* Chemical substances and preparations must be treated so as to prevent their accidental release into the environment is prevent.
* Used packaging of chemical substances and preparations must be treated as hazardous waste.
* If necessary, rules must be prepared for the handling of hazardous chemical substances and preparations. According to Section 44a(10) of Act 258/2000 Coll., on the protection of public health and on amendment to certain related Acts, as amended, rules must be established for a workplace where hazardous chemical substances and preparations classified as very toxic, toxic, corrosive, carcinogenic, mutagenic and toxic for reproduction are handled, of which rules the employees must be provable instructed. A copy of these rules must be handed over by RWE GS contractor.

 The contractor must present Safety Data Sheets of all the above mentioned substances (on CD).

## Protection of Soil and the Environment

Vehicles and equipment containing hazardous substances must be in perfect condition. If dripping appears, the supplier is obliged to remove the defect immediately. If greater service intervention is necessary outside of the workplace, the contractor must take the necessary measures to prevent leaks into the environment.

# Sub-contractors

**The list of sub-contractors together with listed activities is included in Annex 7 of this HSE Plan.**

# Qualifications

**The list of qualifications necessary for the conducting of the specific activities as listed above is included in Annex 8 of this HSE Plan.**

# Audits and Inspections

Before starting the work, the technician for H&S, Fire Protection and Environment Protection will carry out an audit to confirm compliance with the approved HSE Plan.

During the work, any deviations from the HSE Plan and all hazardous situations endangering the safety and health of people and the environment will be recorded in the construction log. The supervisor of the well workover or Fire Protection and Environment Protection or the H&S/Fire Protection technician will acknowledge the deviation by his signature in the construction log, describing the solution of this condition.

# Stopping the Works

The well workover supervisor has the right to control the work with regard to the principles of environmental protection. In the event of a breach of any provision that could result in damage to the environment, he has the right to stop the works and expel the originator of the hazard from the workplace and from RWE GS site.

The well workover supervisor has the right to control the work with regard to the principles of health and safety at work. In the event of a breach of any provision that could result in damage to the safety and health at work, he has the right to stop the works and expel the originator of the hazard from the workplace and from RWE GS site.

The right to expel a contractor's employee applies also in situations where the employee is not able to show a valid and properly completed safety diary.

In the event of violations of the rules of health and safety at work or environmental threats, the well workover supervisor has an obligation to stop the work until the causes of the threatening condition are removed.

Workers who feel that their health has been endangered or during whose activities the rules of health and safety at work and will be endangered environment have a duty to refuse such activity and report it to their manager and to the well workover supervisor.

# Reporting

The well workover supervisor is obliged to inform the inspection service of RWE GS of all injuries at work of the contractor by record of the injury at work sent electronically to the address *Click here to enter the text* The inspection service will record the injury in the injury book.

In the event of a breach of the HSE Plan, the supervisor of the well workover, H&S/Fire Protection technician or the Fire Protection and Environment Protection technician will make a record in the construction log and notify the HSE representatives of the client and the contractor.

# Entry of Persons to the Well Workover Site

Only persons instructed in the relevant parts of the HSE Plan and observe the rules of the plan may enter the well workover site.

Persons carrying out activities specified in the work projects or this HSE Plan must report to the well workover supervisor.

Persons performing audits or inspections according to this HSE Plan must report to the well workover supervisor before entering the site.

All persons entering the workplace POS must be equipped with appropriate PPE according to this HSE plan.

# Documenting

RWE GS reserves the right to take photographic and film documentation for the purposes of documenting the works during well workovers. The documentation may be used as a basis for sanction for non-compliance with the provisions of this HSE Plan and as material for investigating possible incidents.

# Final Evaluation

On well workover finishing, the HSE representatives of the client and of the contractor will evaluate the work and if necessary, update the HSE Plan based on the construction log and the inspections records. The report on the evaluation of the performed work will be at the disposal of client and the contractor.

# Related Documents

Report on evaluation of the performed work

# Annexes

## Annex no 1 Policy of Health and Safety and the Environmental Protection of RWE Gas Storage

### Health and Safety Policy

In the RWE group, we consider health and safety at work as one of the main priorities.

In the spirit of our motto "The energy to lead", we want to clearly show that we are among the world leaders when it comes to the health and safety of our employees.

Our goal is to make each employee leaving for home as healthy as he/she was when coming to work, while treating the employees of our partner companies in the same way as our own colleagues.

When setting targets in the field of safety at work, it is important that our values ​​and principles are clearly demonstrated and we all stood together as examples of the best practices and safe behaviour. Mistakes are seen as opportunities from which we must learn.

It is the responsibility of all of us, managers as well as ordinary employees, to succeed in bringing to life the high culture of safety at work, working constantly on its development.

### Environmental Policy

Environmental protection is one of the highest priorities of RWE in the Czech Republic.

We take compliance with statutory requirements for granted, while environmental protection is understood as a social responsibility to our environs as well as to our employees.

In the area of environmental protection, we follow the latest developments in science, choosing environmentally friendly technologies.

Environmental protection is included in all our processes and decisions of the company. The company sets goals and target values for the environment, the goals are reviewed and evaluated. We try to minimize the impact of all our activities on the environment.

We inform regularly the company management of the results in the field of environmental protections, as well as all employees and the public. We support the exchange of information and open dialogue with all stakeholders.

We are continually increasing our employees' awareness of the environment. We educate and train our employees in order that they have knowledge of the environmental legislation and that they know the consequences and impact of their activities and of the activities of the company on the environment.

The company has committed to implement, maintain and continually improve an environmental management system according to ISO 14001 standards.

## Annex 3 Organization Structure of RWE GS

## Annex 4 Personal Protective Equipment

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PPE** | Work on high pressure gas equipment  | Work at height and over non-covered depth  | Crane work  | Slinging | Work with forklift truck  | Welding, Cutting  | Handling chemical substances and preparations  | Using power generators and distribution systems  | Work with hand electrical equipment  | The use and storage of pressure vessels  | Work with high-pressure cleaning devices  | Manual handling of heavy loads  | Unloading and loading of vehicles  | Stacking of material  | Storing of material | Pressure tests  |  Driving motor vehicles | Transport of dangerous items by road  |  Visits |
| working clothing4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |
| Antistatic, flame retardant clothing4  | x | x | x | x | x |  | x | x | x | x | x | x | x | x | x | x |  | x |  |
| antistatic shoes normal S2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |
| antistatic shoesreinforced S3 | x | x | X | x | x | x | x |  | x | x | x | x | x | x | x | x |  |  |  |
| Nonconductive shoes |  |  |  |  |  |  |  | x1 |  |  |  |  |  |  |  |  |  |  |  |
| goggles | x |  |  |  |  |  | x |  | x | x | x |  |  |  |  | x |  | x | x |
| hearing protection(>85 dB) | x |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |
| gloves | X | x |  | x |  | x |  |  | x | x | x | x | x |  |  | x |  |  |  |
| rubber gloves |  |  |  |  |  |  | X2 | x |  |  |  |  |  |  |  |  |  | x |  |
| shield |  |  |  |  |  |  | X3 |  |  |  |  |  |  |  |  |  |  |  |  |
| safety harness  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| hard hat | X | x | X | x | x | x | x | x | x | x | x | x | x | x | x | x |  | x | x |
| protective helmet or goggles |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| welding clothing/apron |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |

Note:

1. Can be replaced by a non-conductive pad
2. Necessary when handling corrosive and toxic substances
3. Required if handling corrosive liquids
4. Workers must wear long pants and long sleeve to work

## Annex 6 Communication Scheme during Accident (Well Eruption)

**Mining Rescue Service**

 **(Main and Local)**

**Other employees with special tasks according to EP**

**Control Room of the RWE GS UGS (InspectionService / VLH)**

**()**

**Accident Response Manager VLH of the RWE GS UGS**

**Integrated Rescue System – Fireighters, Police, Ambulance, Rescue service**

**Emergency committee accrding to EP of the UGS involving the contractor representatives**

**Other subjects according to EP of the UGS**

**Emergency response procedure according to EP of the UGS – well eruption**

**Well eruption – reported from the well TDO POS**

## Annex 7 List of Sub-Contractors

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Company** | Work on gas equipment  | Work at height and over non-covered depth  | Crane work  | Slinging | Work with forklift truck  | Welding, Cutting  | Handling chemical substances and preparations  | Using power generators and distribution systems  | Work with hand electrical equipment  | The use and storage of pressure vessels  | Work with high-pressure cleaning devices  | Manual handling of heavy loads  | Unloading and loading of vehicles  | Stacking of material  | Storing of material | Pressure tests  |  Driving motor vehicles | Transport of materials and substances under pressure  | Transport of dangerous items by road  |
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Employees of companies engaged in activities that are marked in yellow must keep safety diary in which they have to record all their qualifications, courses and inspections.

**Contacts:**

|  |  |  |
| --- | --- | --- |
| **Company** | **Contact Person** | **Phone** |
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## Annex 8 List of Qualifications of the Companies

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | medical fitness for night work  | certificate for assembly and disassembly of VTZP and VTZT  | crane operating license  | slingers licence  | welding (burning) licence | at least Section 3 or higher under Dir.no.50/1978 Coll.  | driver's license for a motor truck  | trained to work with chemicals and preparations  | driver's license for the relevant motor vehicles category  | training for work at height and over non-covered depth  | training in work safety and fire protection | instruction in EP  | instruction in HSE plan  | Inspection Service  | competence to manage emergencies and accidents (IS)  | certificate "dealing with pressure manifestations"  | training certificates for drivers of vehicles carrying dangerous goods  | training of persons involved in the transport of dangerous goods in accordance with Chapter 1.3 of the ADR  | instruction in the gas detector operation |
| Work on gas equipment  | X | X |  |  |  |  |  |  |  |  | X | X | X | X | X | X |  |  | X |
| Work at height and over non-covered depth  | X |  |  |  |  |  |  |  |  | X | X | X | X |  |  |  |  |  |  |
| Crane work  | X |  | X |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Slinging | X |  |  | X |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Welding, Cutting  | X |  |  |  | X |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Using power generators and distribution systems  | X |  |  |  |  | X |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Work with hand electrical equipment | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Work with forklift truck  | X |  |  |  |  |  | X |  |  |  | X | X | X |  |  |  |  |  |  |
| Handling chemical substances and preparations  | X |  |  |  |  |  |  | X |  |  | X | X | X |  |  |  |  |  |  |
| Transport of materials and substances under pressure  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| The use and storage of pressure vessels  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Work with high-pressure cleaning devices  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Manual handling of heavy loads | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Unloading and loading of vehicles  | X |  |  | X |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Stacking of material | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Storing of material  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Pressure tests  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |
| Driving motor vehicles | X |  |  |  |  |  |  |  | X |  | X | X | X |  |  |  |  |  |  |
| Transport of dangerous items by road (ADR) | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  | X | X |  |

## Annex 9 List of air pollution sources

To be complemented before the start of works

## Annex 10 List of harmful substances tanks

To be complemented before the start of works

## Annex 11 Content of the First Aid Kit

|  |  |  |
| --- | --- | --- |
| Medication: | Amount:  |   |
| Opthal (visin, opthalmoseptonex)  |  1 pc  |   |
| Panthenol - spray |  1 pc |   |
| Non-allergenic disinfectant solution - spray  |  1 pc |   |
| Paralen | tablets 2 packages |   |
| Ibuprofen | tablets 1 package |   |
| Carbomedicinalis (Carbosorb) | tablets 1 package |   |
| Gastrogel (anacidcompositum) | tablets 1 package |   |
| Dressing material: |   |   |
| Sticking plaster - smooth | spool 1 pc |   |
| Sticking plaster - spofaplast | 2.5 cm x 2 m, 1 pc |   |
| Sticking plaster - spofaplast | 6 cm x 1 m, 1 pc |   |
| Sterile gauze | 7.5 x 7.5 cm, 2 packages (á 5 pcs)  |   |
| Pressure bandage hydrophilic  |  1 pc |   |
| Hydrophilic bandage sterile  | 6 cm x 5 m, 2 pcs |   |
| Hydrophilic bandage sterile  | 10 cm x 5 m 2 pcs |   |
| Pre-prepared sterile dressing  | no. 2 1 pc |   |
| Sling  |  1 pc |   |
| Elastic bandage  | 10 m x 5 cm 1 pc |   |
| Rubber tourniquet  | (width min 5 cm) 1 pc  |   |
| Medical equipment: |   |   |
| Eye bath with dropper |  1 set |   |
| Latex gloves unsterile |  1 pc |   |
| Scissors | 1 pc |   |
| Tweezers | 1 pc |   |
| Resuscitation gauze  | 1 pc |   |
| Safety pins  | (stainless) 6 pcs |   |
| Medical thermometer in casing | 1 pc |   |
|  Burns package | 1 pc |   |
| First Aid manual  | 1 pc |   |

## Annex 12 Check list



## Annex 13 Work order for works with open flame