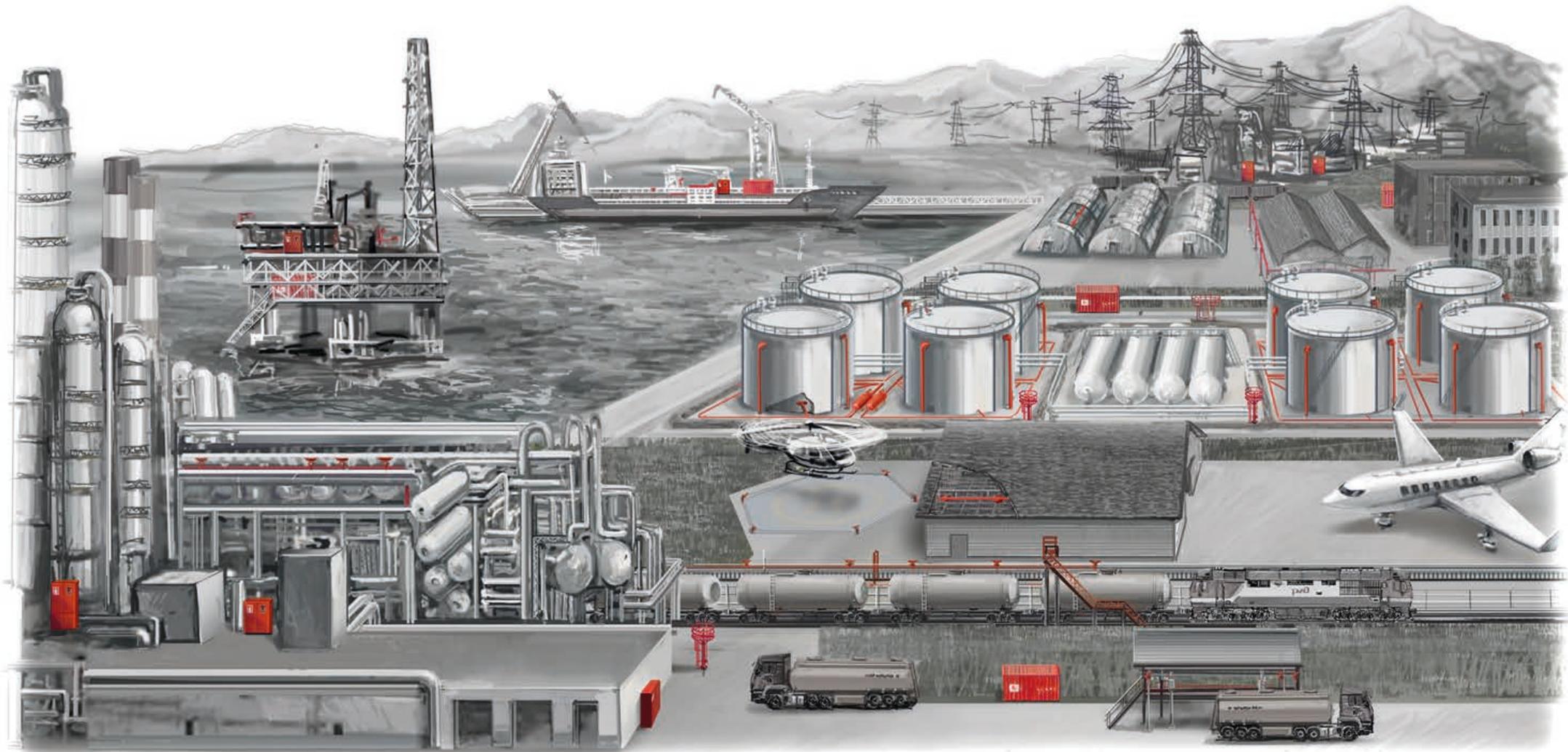




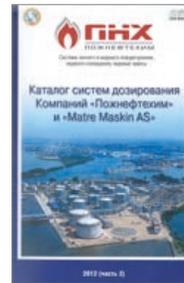
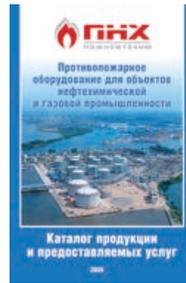
**RUSSIAN MANUFACTURER OF FIRE EXTINGUISHING
EQUIPMENT AND FOAM CONCENTRATES, DEVELOPER OF
DESIGN SOLUTIONS FOR PACKAGE SYSTEMS OF
FOAM FIREFIGHTING AND WATER COOLING**



Pozhneftehim, LLC
+7 (812) 309 91 09

TPC Pozhneftehim, LLC
+7 (499) 703 01 32

mail@pnx-spb.ru
www.pnx-spb.ru



2004

Pozhneftehim established

2008

Own manufacturing venue of firefighting equipment

2012

Testing stand 1 000 sq.m

2016

Package offer of firefighting equipment and foam concentrates

2020

ISO, quality control of manufacturing and management

- Development, manufacturing and shipment of firefighting equipment and foam concentrates
- Development of Concepts for fire protection, Special technical conditions, Fire safety measures
- Expertize of organizational and technical design solutions for fire safety, evaluation of their correspondence to official codes and standards
- Consulting on design, construction, reconstruction and put into operation stages
- R&D in development of firefighting equipment and fire extinguishing substances
- Organization of Advanced training (refresher) courses for professionals in industrial and fire safety, designers of fire extinguishing systems

FOUNDER OF POZHNEFTEHIM



Evgeniy Veselov

Pozhneftehim LLC Director General

Before Pozhneftehim creation:

Lieutenant colonel of internal service at MIA,

Head of fire defense department

For 17 years by now, our company has been **designing, manufacturing and installing systems of fire protection on hazardous industrial objects**. The heads of Pozhneftehim have been collaborating with largest companies of oil&gas, petrochemical sectors and other industry branches.

This brochure features firefighting equipment and foam concentrates produced by Pozhneftehim. This is not the complete list of our products. **Our assortment outnumbers 14 thousand items, which are significant product modifications** that differ in functionality depending on the characteristics of the industrial venue.

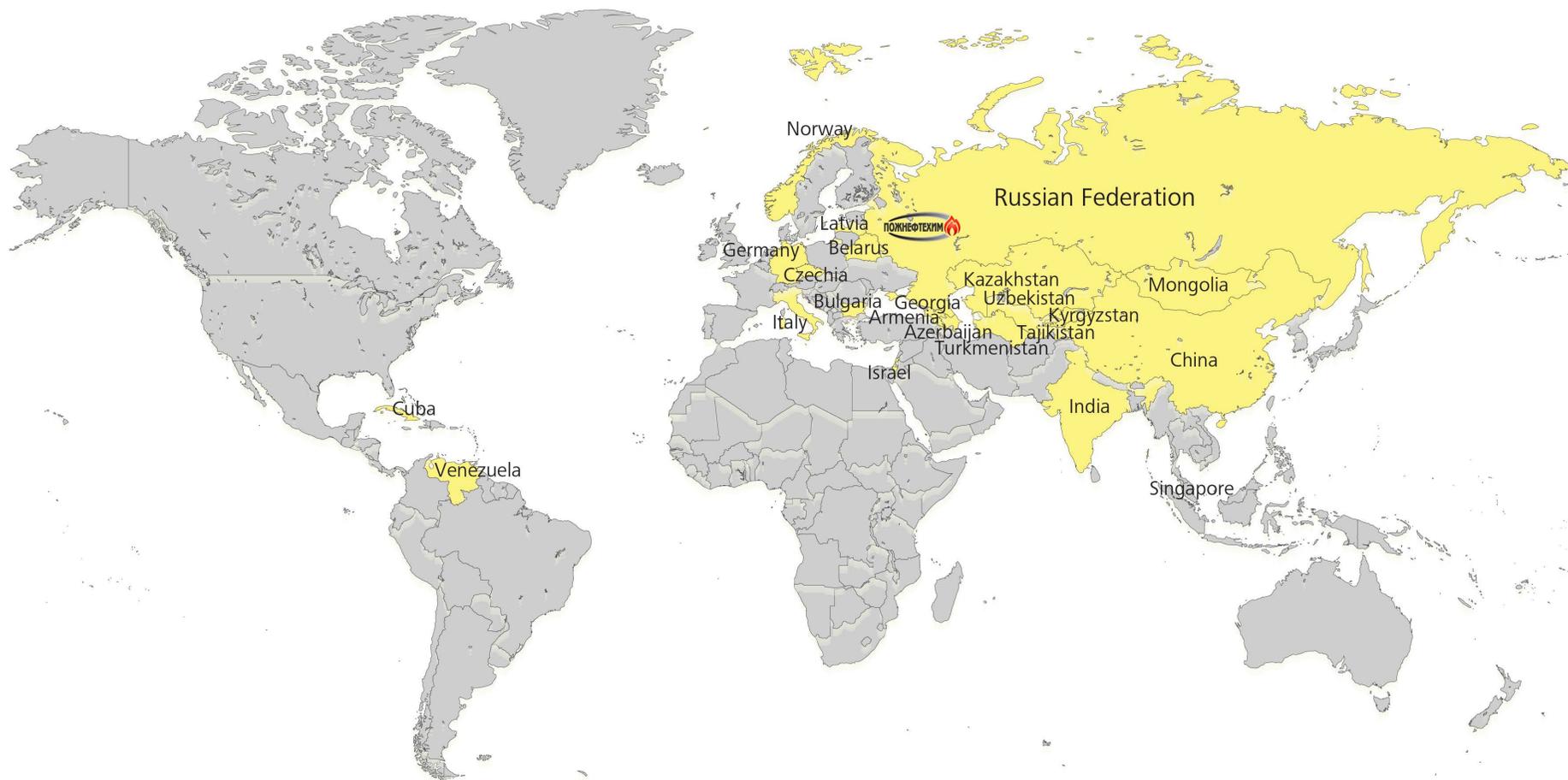
We maintain **proper research and development program** in fire defense technologies. New specimens are tested at the certified testing area of over 1 thousand sq m. The production venue of Pozhneftehim occupies over 4 thousand sq m overall.

The history and sustainable development of the company is guarantee that Pozhneftehim is reliable partner. If you need **functional, efficient and financially sound firefighting systems**, you are welcome to address Pozhneftehim. We guarantee comfort at each stage of works, from design to commissioning of your object.

Fire safety of industrial objects is an essential element of state stability.

We work for reliability and confidence in our future day.

Map source: Free Vector Maps.com



Among our customers

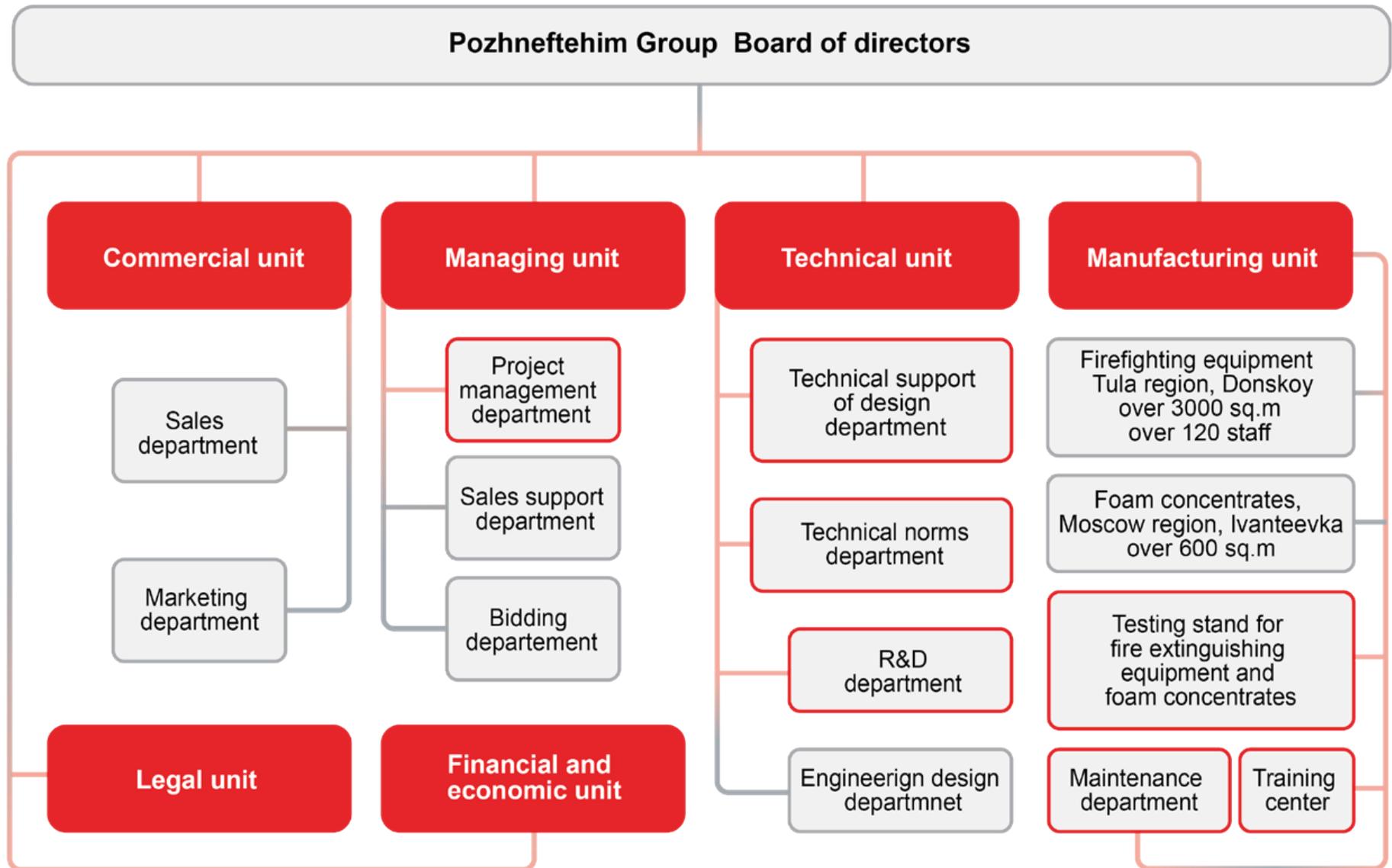


POZHNEFTEHIM ADVANTAGES



- **Russian developer and manufacturer of fire fighting equipment and foam concentrates** for package systems of foam fire extinguishing, water spraying (cooling) of industrial buildings and constructions
- Maintenance of the customer: installation supervision, commissioning works, **training of personnel** at the venue, participation in acceptance testing
- Own manufacturing venue of over 4000 sq.m, **certified testing site** of over 1000 sq.m
- Technical support of **design works** (Special technical conditions, Fire safety measures design documentation, standard designs, installation drawings, customized solutions for specific conditions of the customer)
- Qualified personnel, **quality control system of manufacturing and management by GOST, ISO**
- License of the EMERCOM of Russia and **access permits to works at particularly hazardous objects** by the Association of designers of fire protection systems

Pozhneftehim collaborates with design organizations, engineering companies, package supply companies, construction and installation organizations, carries out warranty services



Well-balanced organizational structure helps our company to process customer requests efficiently and ensure collaboration of over 30 departments.

MANUFACTURING OF FIRE EXTINGUISHING EQUIPMENT

Own manufacturing and research base – over 3000 sq. m



Foam generators



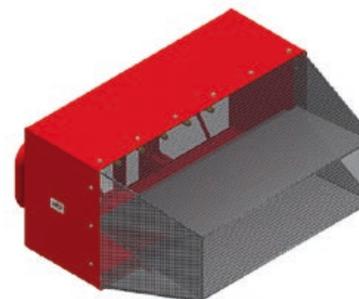
Low expansion foam chamber Vega



Universal foam generator Turbopen



Deluge sprinkler, universal water/foam nozzle Antifire



High expansion foam generator Favorit



High back pressure foam generator Shturm

Fire towers, fire monitors

Fire tower, water heat-protective screen, fire monitor



Fire monitor



Nozzles for water curtains



NP-I and NP-II



NP-III

FIRE FIGHTING EQUIPMENT

Supplementary equipment



Universal fire filter
Tauer



Fire stabilizer



Fire hydrant manifolds



Foam nozzle Interlayer



Burstable membrane



Fixed fire pressure
proportioner Foamix

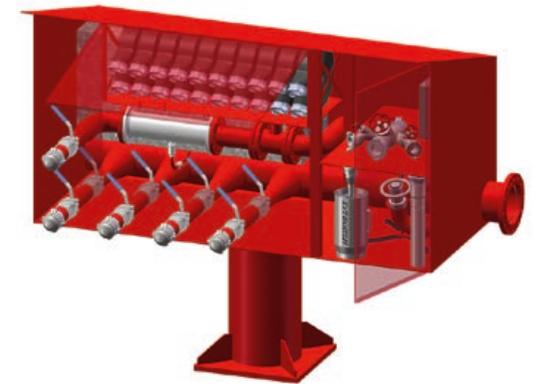
Integrated functional blocks



Fire foam cabinet MasterPen



Fire hose cabinet Rubezh



Foam concentrate storage and proportioning systems



Foam concentrate storage and proportioning (dosing) systems



Turbine inline proportioner M-TU



Balanced pressure proportioner M-BP



Foam inductor M-FOI

Bladder tanks



Horizontal bladder tank Antifire



Vertical bladder tank Antifire



Double bladder tank Antifire

Block modular buildings



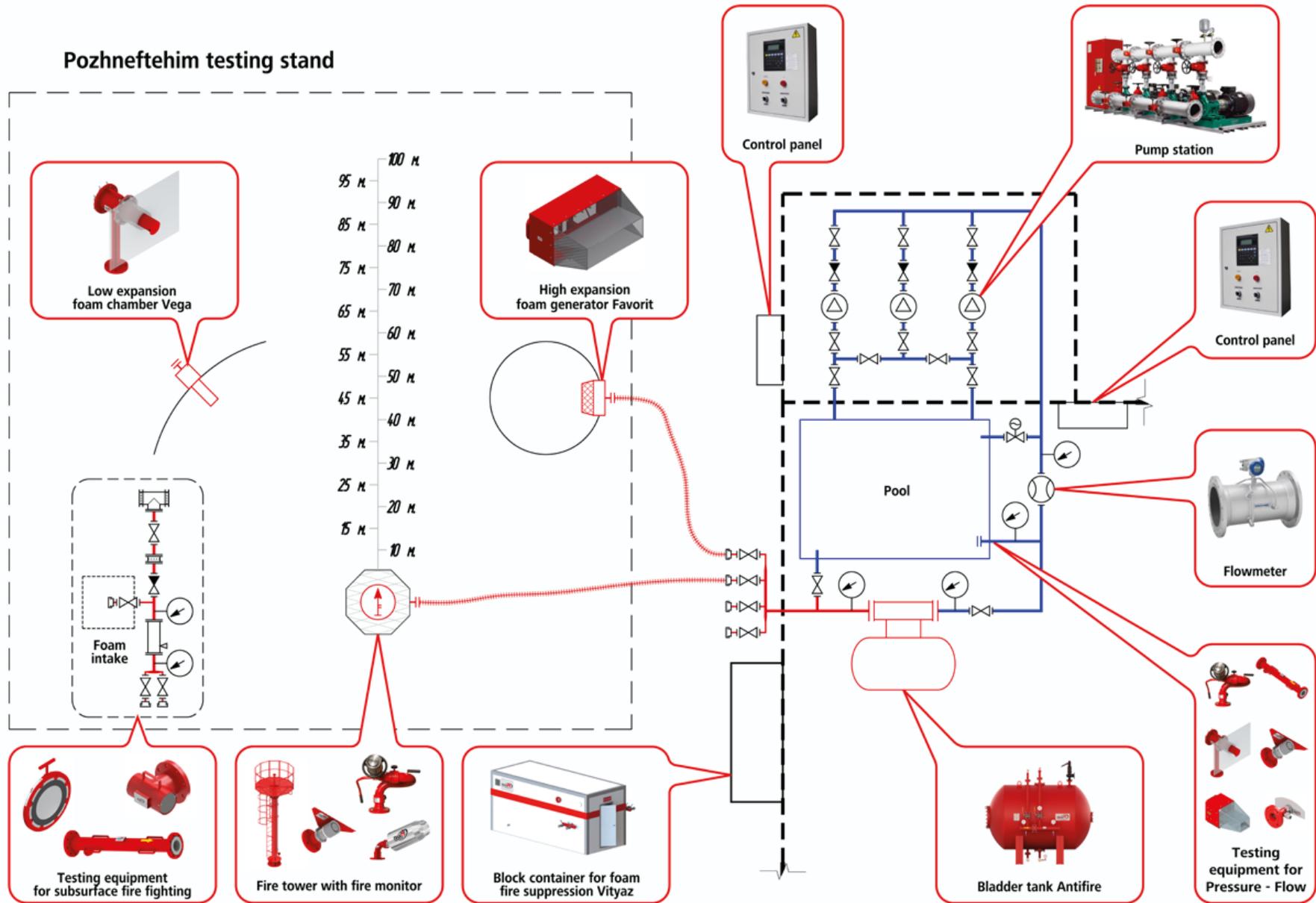
Block containers for fire suppression Vityaz

QUALITY CONTROL: TESTING STAND

Certificate of the State regional center for standardization, metrology and testing in Nizhniy Novgorod region No. 4601/1600-17 dated 14.07.2017

Passport of the Stand for hydraulic tests No. к Р-005-2013-СГИ-ПНХ (2015)





TESTING STAND AND FIRE TESTS

The equipment and foam concentrates testing is arranged at the special testing area and at the Pozhneftehim own manufacturing venue. They are conducted to control quality of serial products and to **develop new items of products** as part of the proper Research and Development program.



Pozhneftehim conducts annual **Advanced training courses** with demonstration of fire extinguishing systems with low, medium and high expansion foam, as well as systems of water spraying. The participants are specialists in labour protection, industrial and fire safety of industrial objects.



Testing of **fire extinguishing capacity** of Aquafom foam concentrates and wetting agents is performed at a special testing ground.

Over **200 tests** with small and medium fires are required to develop one foam composition.



In 2011, Pozhneftehim started the manufacturing of Aquafom foam concentrates. During these years, over 300 compositions have been developed, over 180 compositions approved for manufacturing. Pozhneftehim can develop customized products which consider the characteristics of protected objects (type of water, combustible substance, climate of the region).

- **Aquafom IN (AFFF)**
Aquafom INSV (AFFF)
- **Aquafom IIN (AFFF/AR)**
Aquafom IINSV (AFFF/AR)
- **Aquafom, Aquafom M (S)**
Aquafom S/AR
- **Aquafom SM (WA)**
- **Foam composition for ammonia spills coverage**
- **Foam composition for recharge of modules and extinguishers**



Own manufacturing and research base – over 1000 sq. m

8 K TONS PER YEAR
30 TONS PER DAY

MANUFACTURING CAPACITY



Reactor for production of foam concentrate



Fire chamber for testing



Filtration area

QUALITY CONTROL AND RESEARCH: LABORATORY

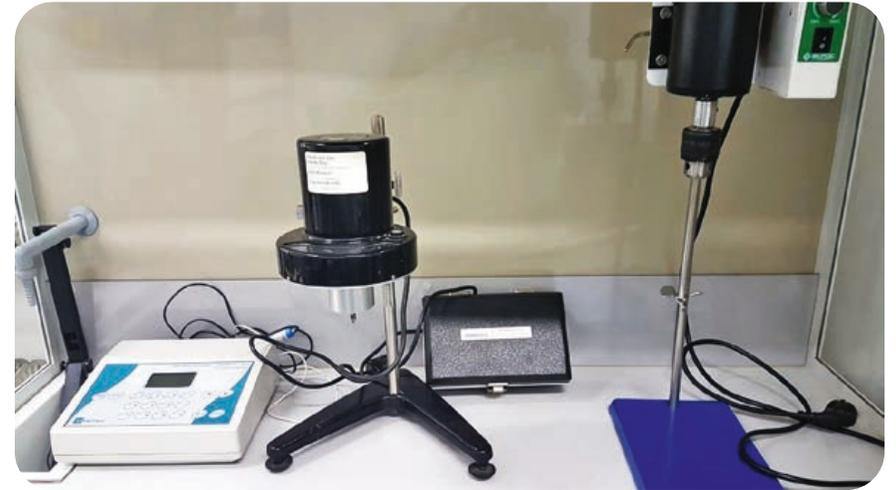
Developing and improving composition of fire extinguishing foam concentrates



Foam concentrate viscosity testing



Scales with granite slab for vibration damping



Ionometer, viscosimeter, mixer



Freezing point testing



Wetting capacity testing

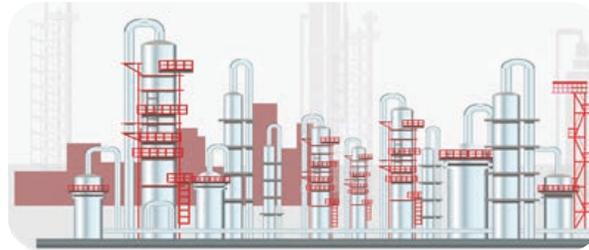


Tensiometer

Oil tank farm (flammable, combustible liquids)



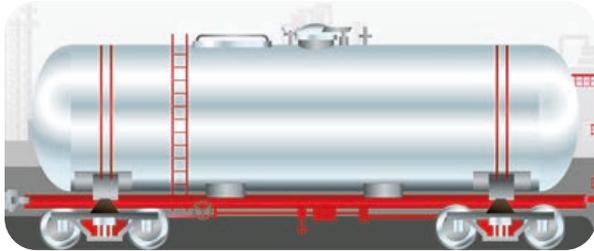
Oil processing outdoor installation



Warehouse, storage premises



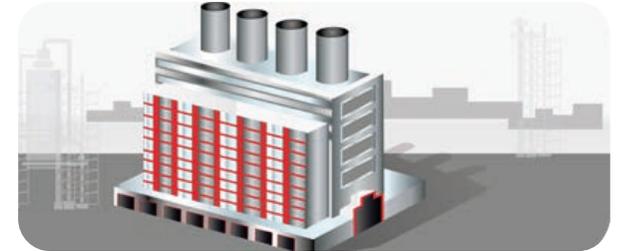
Loading / unloading railway rack



Tank farm (LNG, LPG)



Oil power transformer



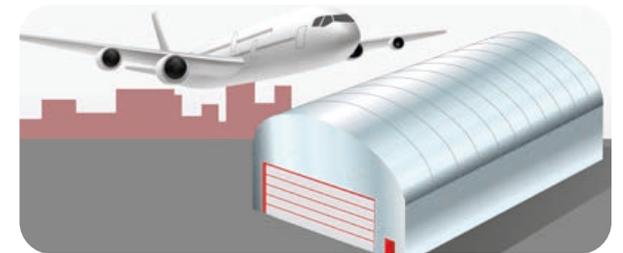
Loading / unloading oil truck rack



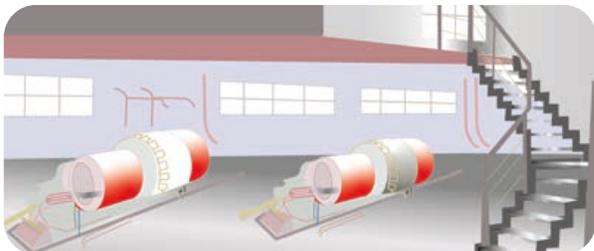
Marine loading / unloading berthing complex



Airplane hangar, hangar for machinery



Compressor station



Oil marine platform



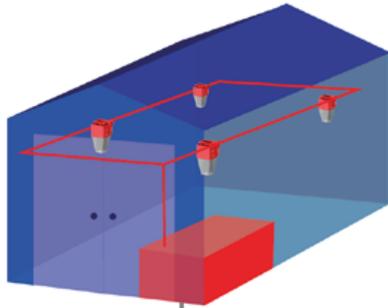
Helideck, helicopter landing area



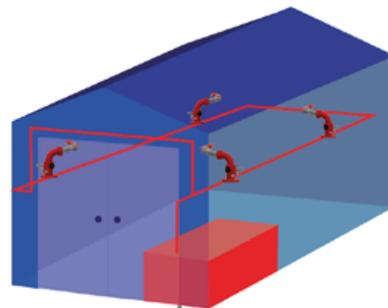
POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS

Logical scheme. Warehouses, storage premises (SP 485.1311500.2020)

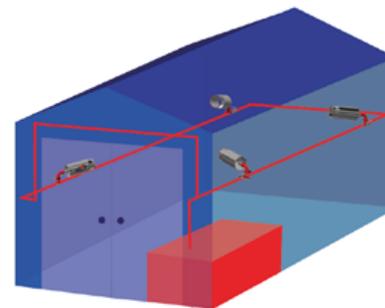
High expansion foam firefighting installation with foam generator Favorit GVPE



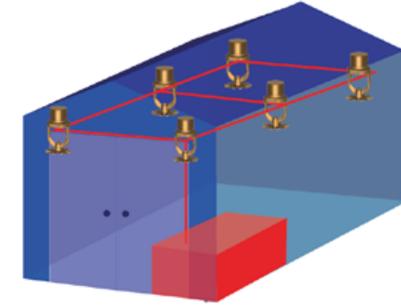
Low expansion foam firefighting installation with deluge sprinkler Antifire UVPN



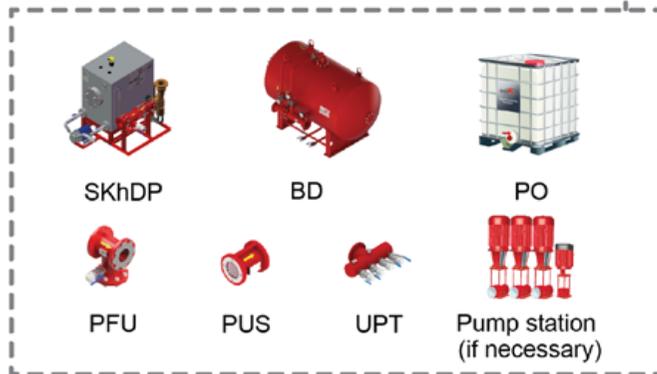
Medium expansion foam firefighting installation with foam generator Turbopen UGP



Low expansion foam firefighting installation with foam deluge sprinklers

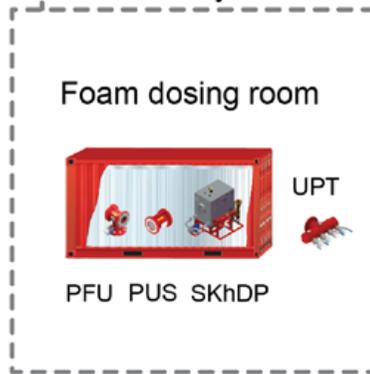


Built-in room



Attached or separate BK-PT Vityaz

Foam dosing room

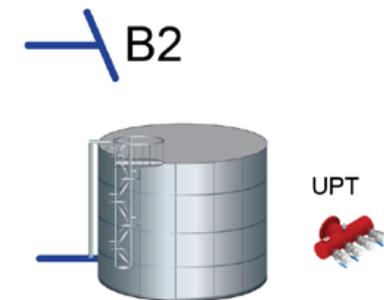


OR



Pump station (if necessary)

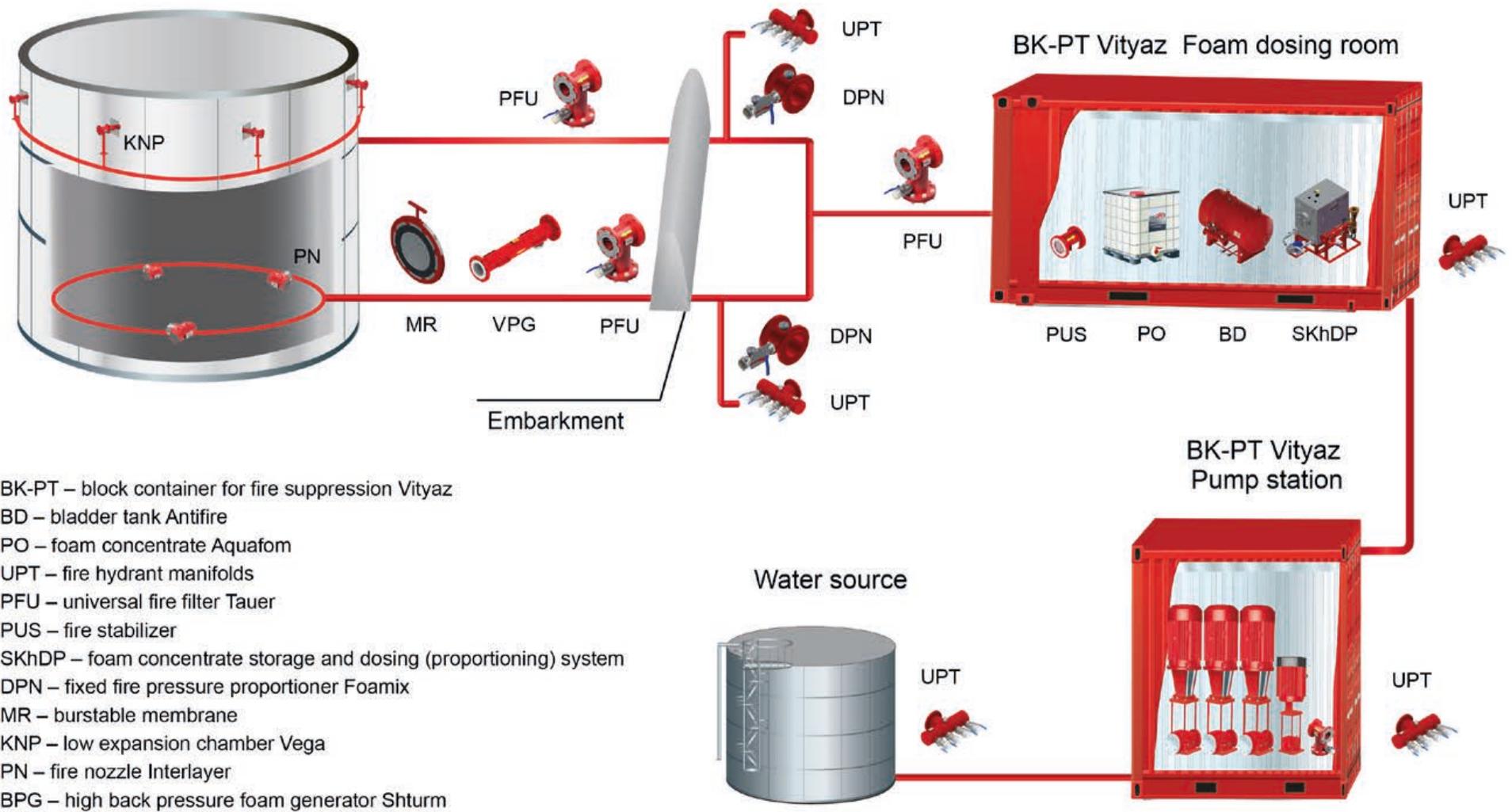
Water source



SKhDP – foam concentrate storage and dosing (proportioning) system
 BD – bladder tank Antifire
 PFU – universal fire filter Tauer
 PUS – fire stabilizer

UPT – fire hydrants manifolds
 GVPE – high expansion ejection foam generator Favorit
 UGP – universal foam generator Turbopen
 UVPN – deluge sprinkler, universal water/foam nozzle Antifire

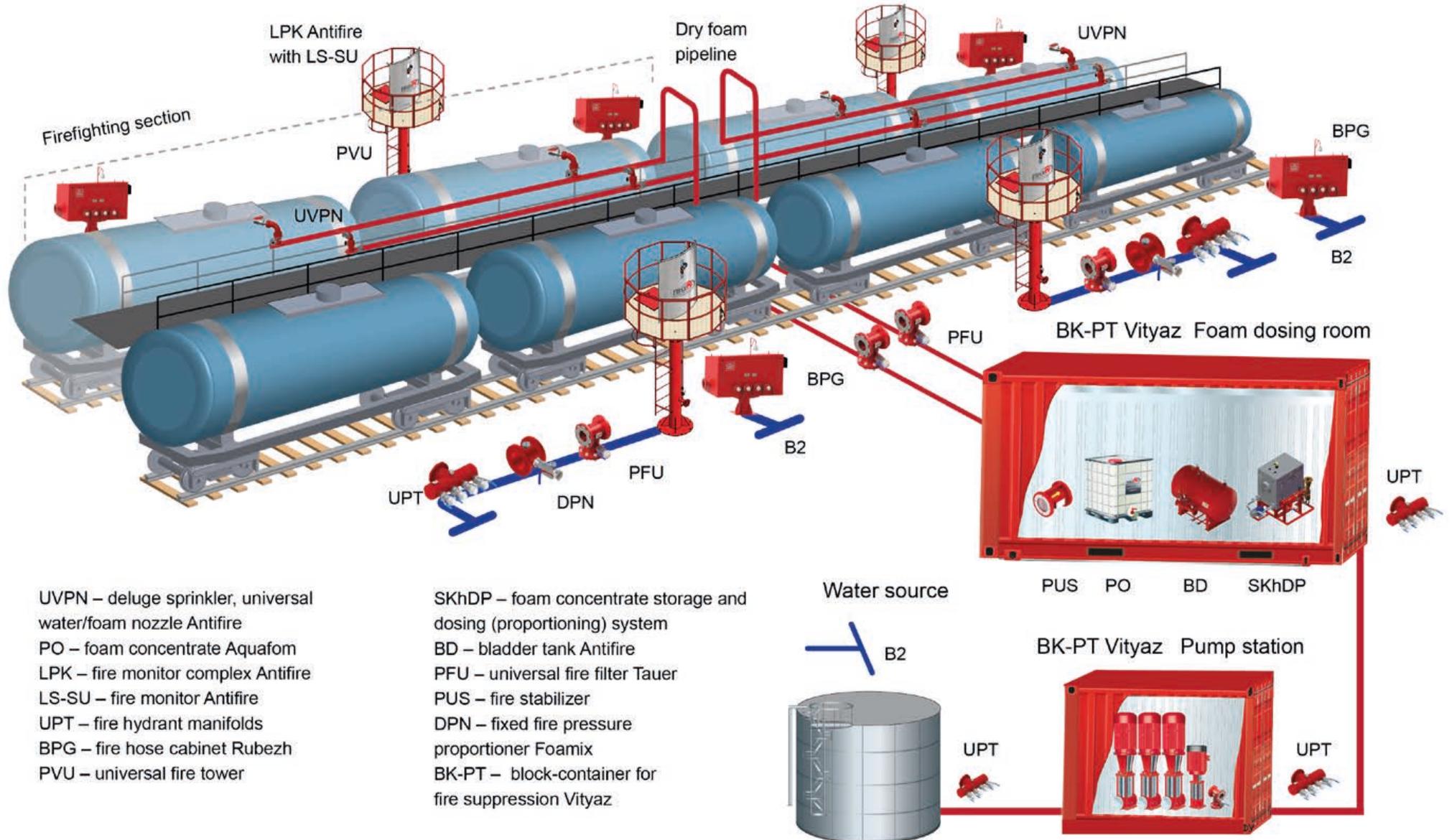
Logical scheme. Tank with flammable, combustible liquids



- BK-PT – block container for fire suppression Vityaz
- BD – bladder tank Antifire
- PO – foam concentrate Aquafom
- UPT – fire hydrant manifolds
- PFU – universal fire filter Tauer
- PUS – fire stabilizer
- SKhDP – foam concentrate storage and dosing (proportioning) system
- DPN – fixed fire pressure proportioner Foamix
- MR – burstable membrane
- KNP – low expansion chamber Vega
- PN – fire nozzle Interlayer
- BPG – high back pressure foam generator Shturm

POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS

Logical scheme. Loading/unloading railway rack



UVPN – deluge sprinkler, universal water/foam nozzle Antifire
 PO – foam concentrate Aquafom
 LPK – fire monitor complex Antifire
 LS-SU – fire monitor Antifire
 UPT – fire hydrant manifolds
 BPG – fire hose cabinet Rubezh
 PVU – universal fire tower

SKhDP – foam concentrate storage and dosing (proportioning) system
 BD – bladder tank Antifire
 PFU – universal fire filter Tauer
 PUS – fire stabilizer
 DPN – fixed fire pressure proportioner Foamix
 BK-PT – block-container for fire suppression Vityaz

Water source



PUS PO BD SKhDP

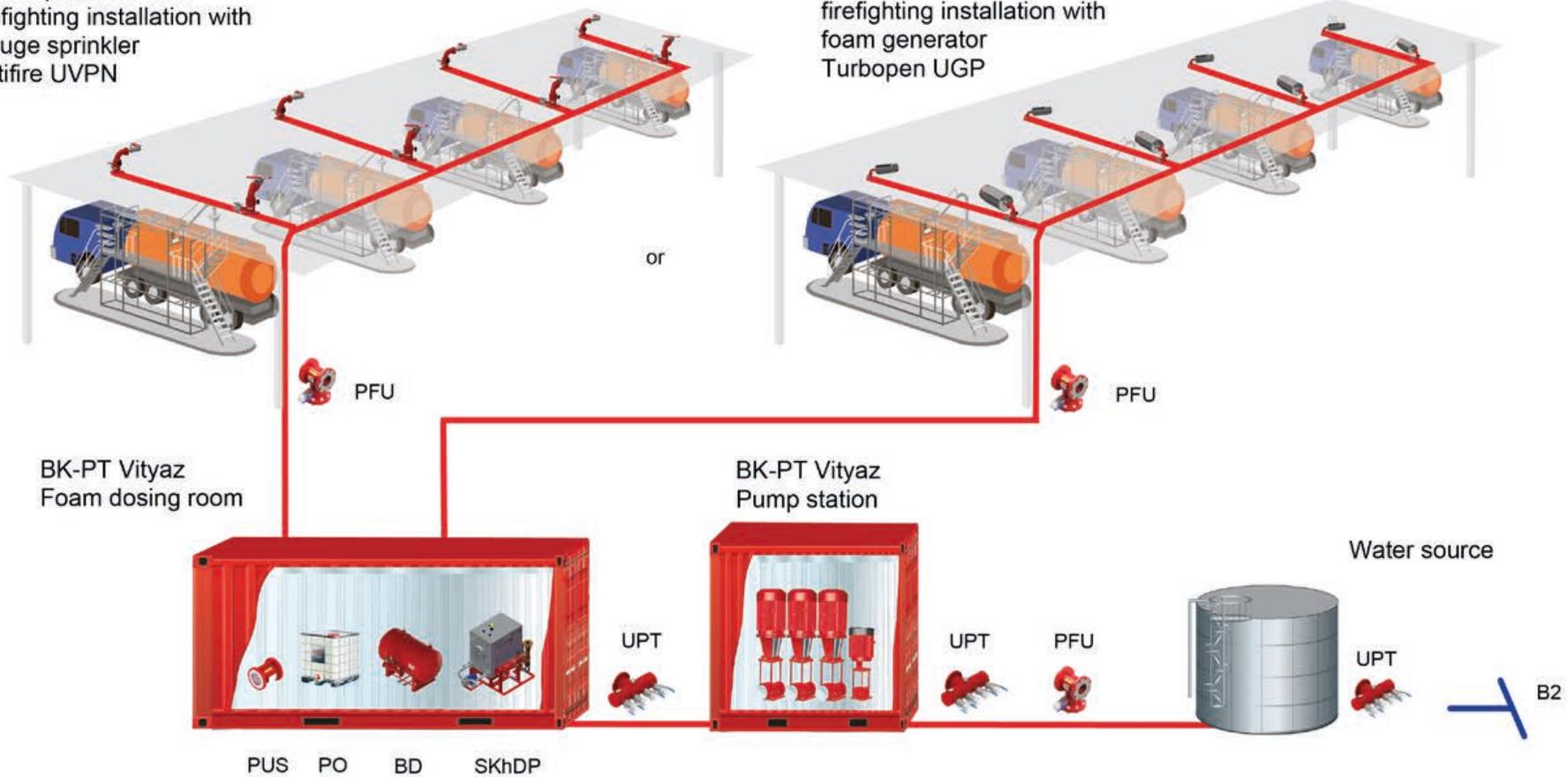
BK-PT Vityaz Pump station



Logical scheme. Loading / unloading oil truck rack

Low expansion foam firefighting installation with deluge sprinkler Antifire UVPN

Medium expansion foam firefighting installation with foam generator Turbopen UGP



SKhDP – foam concentrate storage and dosing (proportioning) system
 BD – bladder tank Antifire
 PO – foam concentrate Aquafoam
 PFU – universal fire filter Tauer

UVPN – deluge sprinkler, universal water/foam nozzle Antifire
 UGP – universal foam generator Turbopen
 PUS – fire stabilizer
 UPT – fire hydrant manifolds

POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS

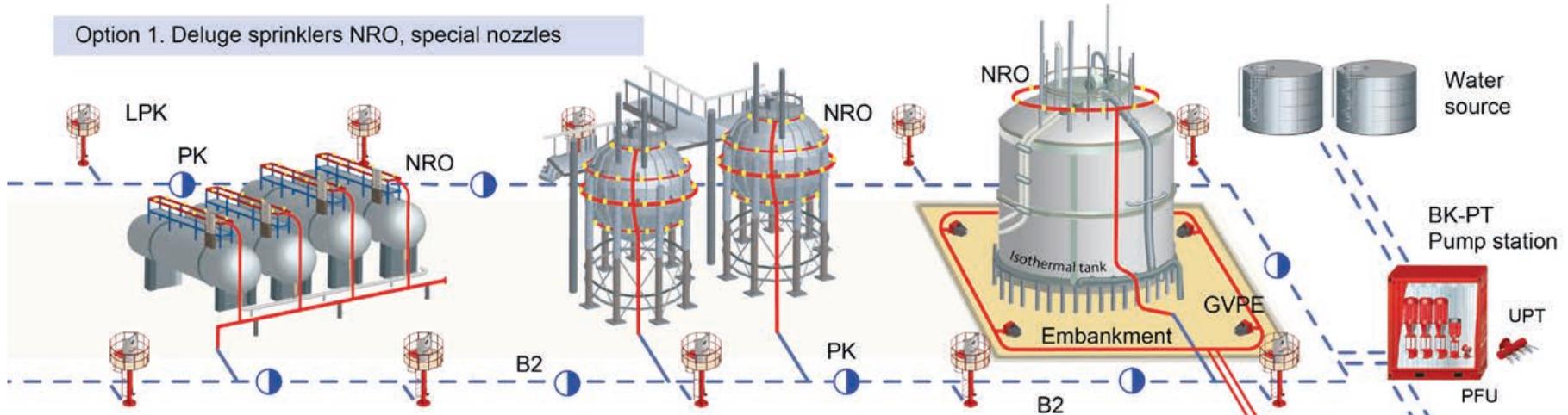
Logical scheme. Tank with LNG, LPG

UVPN – deluge sprinkler, universal water/foam nozzle
 Antifire with oscillator
 NRO – special nozzles for uniform irrigation
 LPK – fire monitor complex Antifire comprising LS-SU
 universal fire monitor, VPE water heat protective

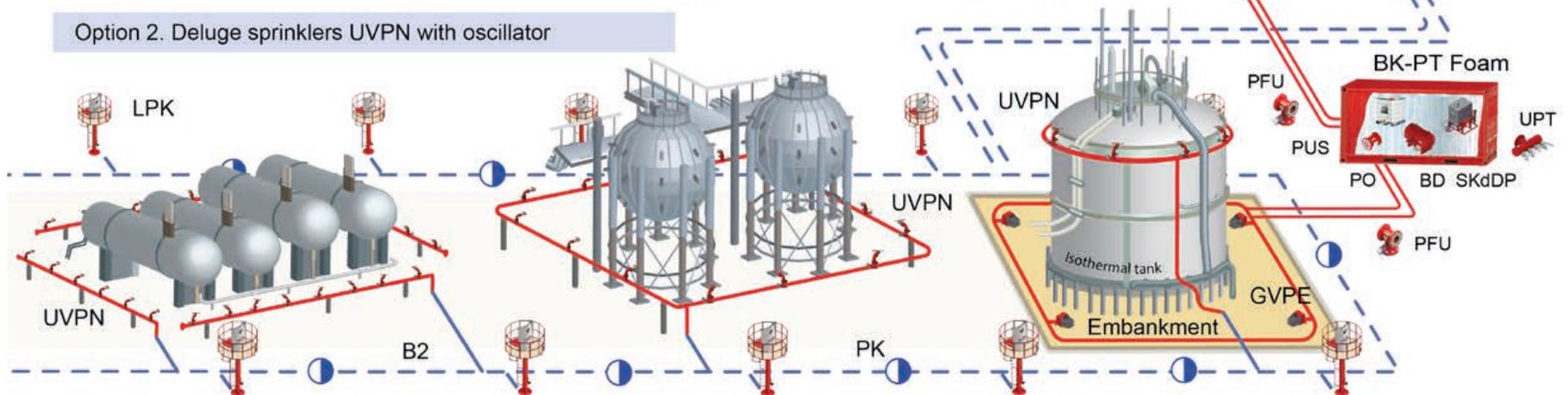
screen and PVU universal fire tower
 BK-PT – block-container for fire suppression Vityaz: pump
 station / foam dosing room (BK-PT Foam)
 PFU – universal fire filter Tauer
 UPT – fire hydrant manifolds

GVPE – high expansion foam generator Favorit
 SKhDP – foam concentrate storage and dosing system
 PO – foam concentrate Aquafoam
 BD – bladder tank Antifire
 PUS – fire stabilizer

Option 1. Deluge sprinklers NRO, special nozzles

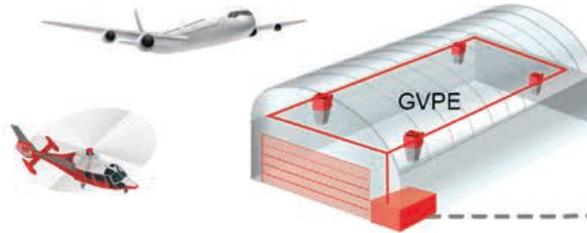


Option 2. Deluge sprinklers UVPN with oscillator

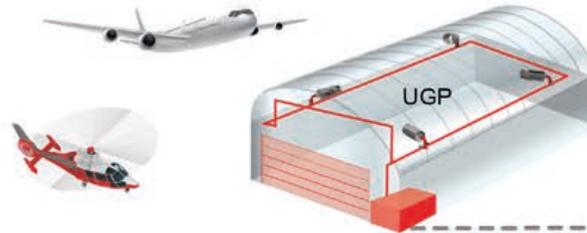


Logical scheme. Airplane hangar

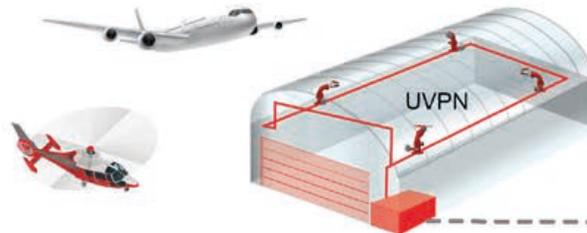
High expansion foam firefighting installation with GVPE Favorit



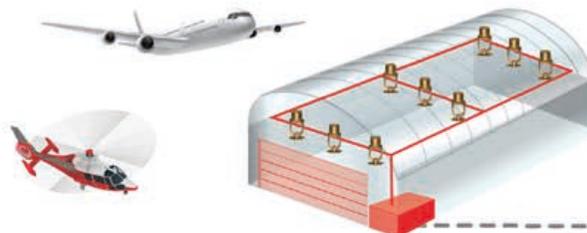
Medium expansion foam firefighting installation with UGP Turbopen



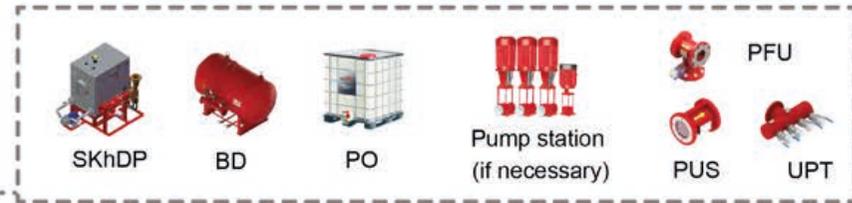
Low expansion foam firefighting installation with UVPN Antifire



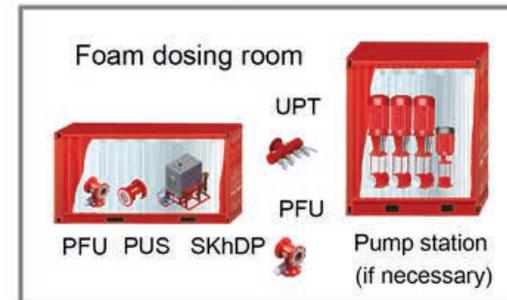
Low expansion foam firefighting installation with foam deluge sprinklers



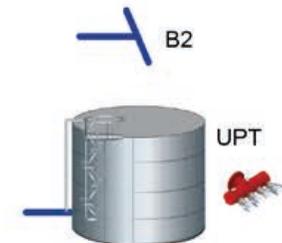
Built-in room



Attached or separate BK-PT Vityaz



Water source



- GVPE – high expansion ejection foam generator Favorit
- UGP – universal foam generator Turbopen
- UVPN – deluge sprinkler, universal water/foam nozzle Antifire
- SKhDP – foam concentrate storage and dosing (proportioning) system
- BD – bladder tank Antifire
- PO – foam concentrate Aquafom
- PFU – universal fire filter Tauer
- PUS – fire stabilizer
- UPT – fire hydrants manifolds

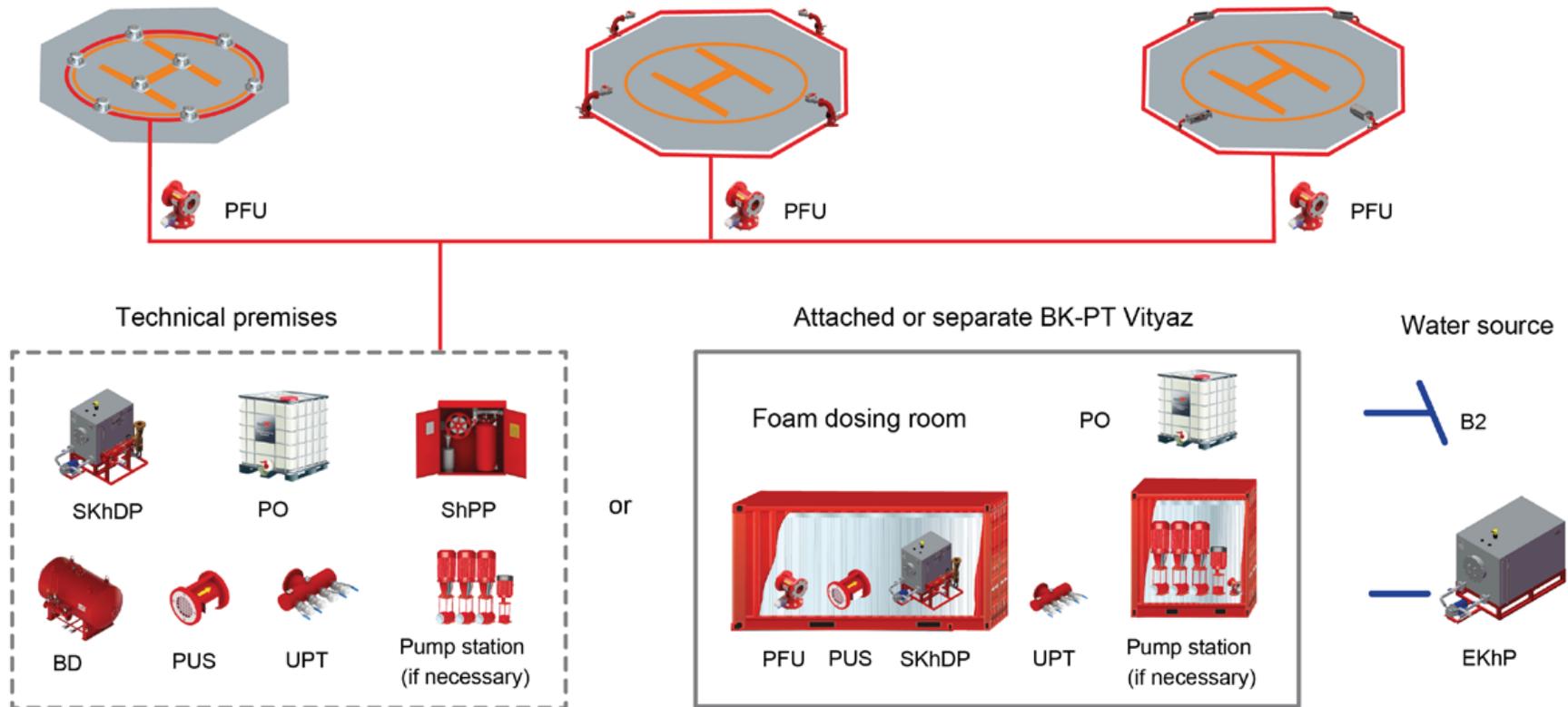
POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS

Logical scheme. Helideck (helicopter landing area)

Low expansion DIFFS firefighting installation with pop-up nozzles DY16

Low expansion foam firefighting installation with UVPN Antifire

Medium expansion foam firefighting installation with UGP Turbopen



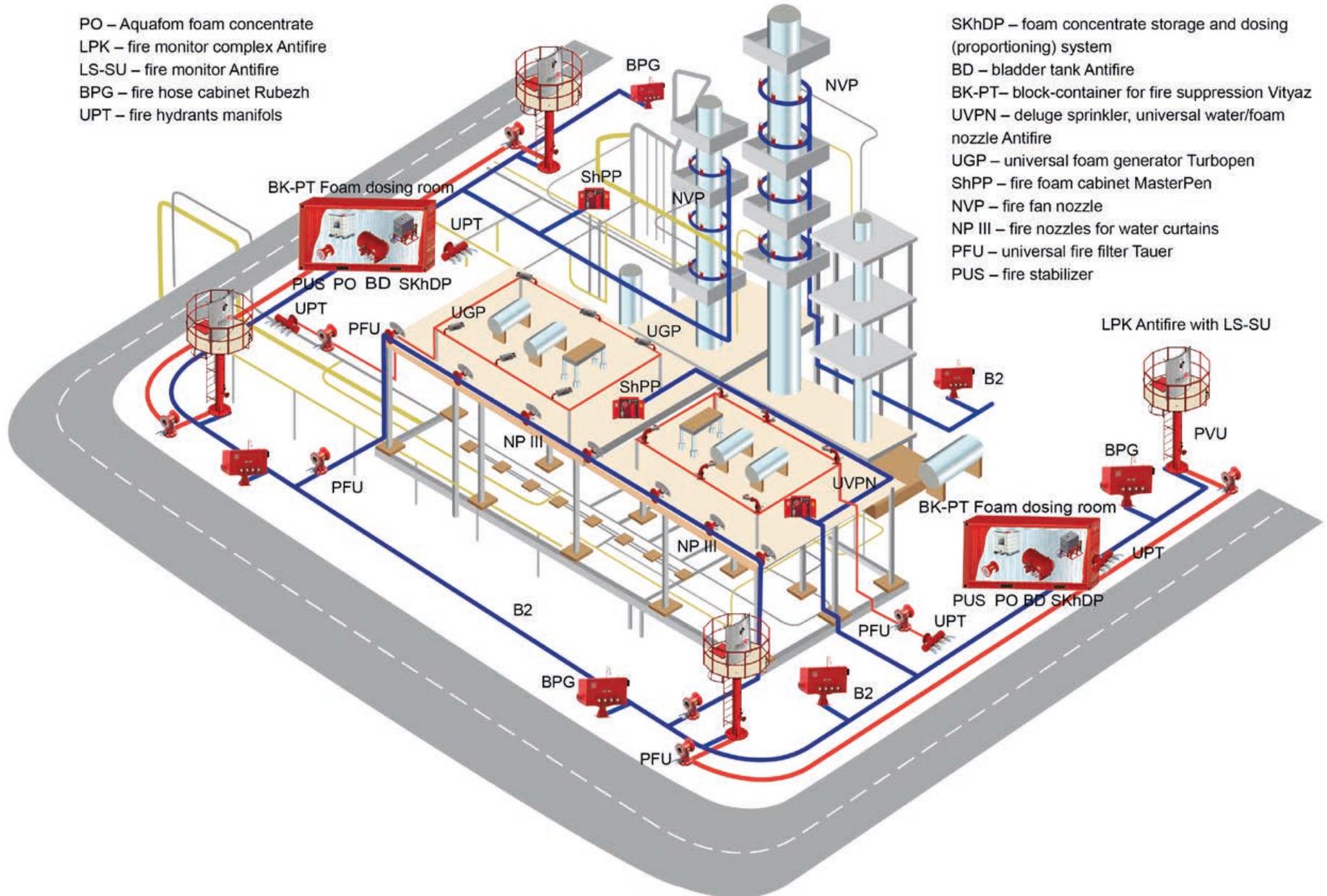
SKhDP – foam concentrate storage and dosing (proportioning) system
 BD – bladder tank Antifire
 PFU – universal fire filter Tauer
 PUS – fire stabilizer
 ShPP – fire foam cabinet MasterPen

GVPE – high expansion ejection foam generator Favorit
 UGP – universal foam generator Turbopen
 UVPN – universal water/foam nozzle Antifire
 EKhP – firefighting water reserve storage tank
 UPT – fire hydrant manifolds

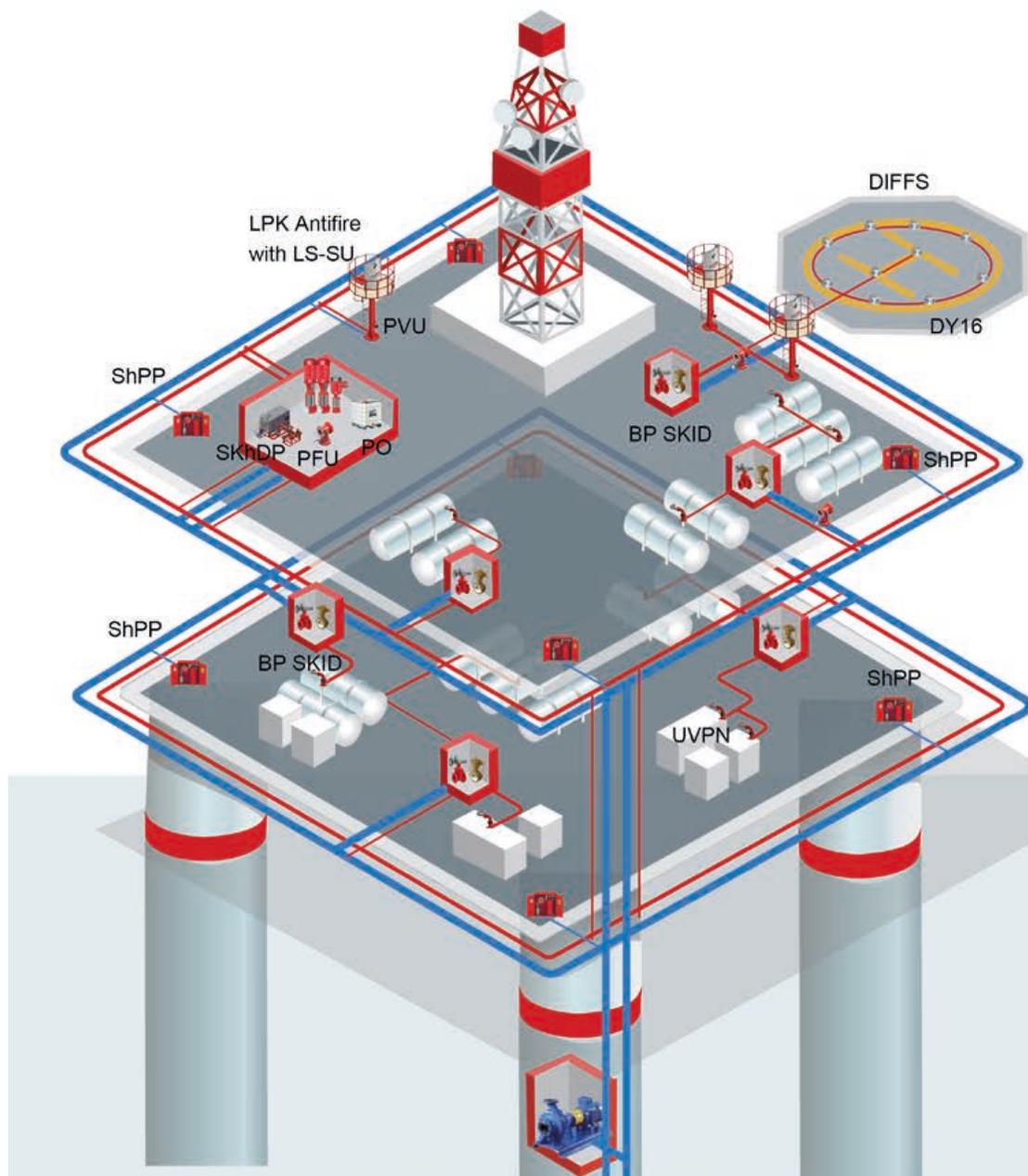
Logical scheme. Oil processing outdoor installation

PO – Aquafom foam concentrate
 LPK – fire monitor complex Antifire
 LS-SU – fire monitor Antifire
 BPG – fire hose cabinet Rubezh
 UPT – fire hydrants manifolds

SKhDP – foam concentrate storage and dosing (proportioning) system
 BD – bladder tank Antifire
 BK-PT – block-container for fire suppression Vityaz
 UVPN – deluge sprinkler, universal water/foam nozzle Antifire
 UGP – universal foam generator Turbopen
 ShPP – fire foam cabinet MasterPen
 NVP – fire fan nozzle
 NP III – fire nozzles for water curtains
 PFU – universal fire filter Tauer
 PUS – fire stabilizer



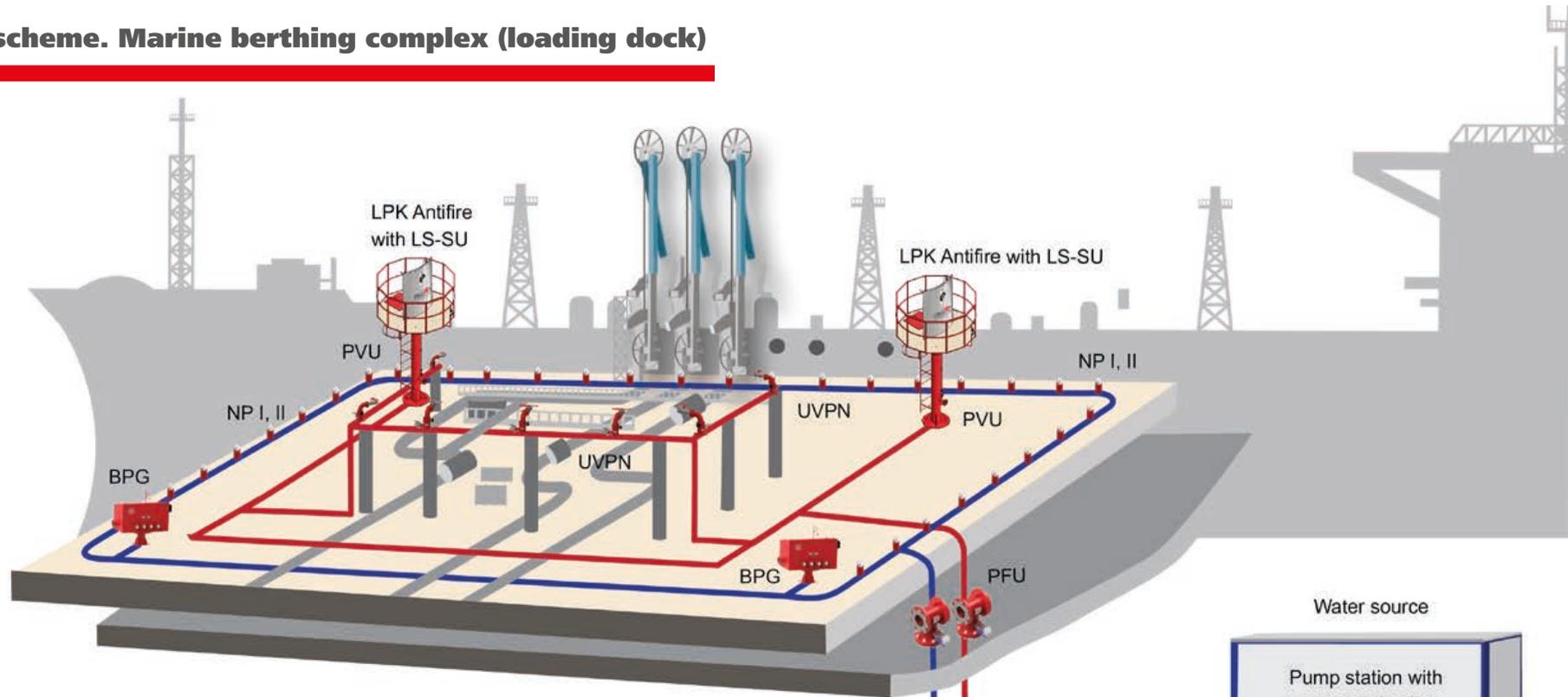
POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS



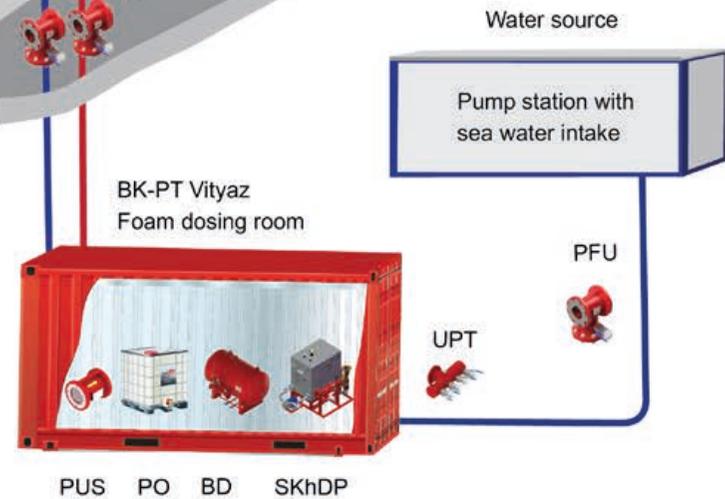
Logical scheme. Marine offshore oil platform

- SKhDP – foam concentrate storage and dosing (proportioning) system пенообразователя
- PFU – universal fire filter Tauer
- BK-PT – block container for fire suppression Vityaz
- UVPN – deluge sprinkler, universal water/foam nozzle Antifire
- ShPP – foam fire cabinet MasterPen
- DY16 – pop-up nozzle for deck integrated firefighting system DIFFS
- PO – foam concentrate Aquafom
- LPK – fire monitor complex Antifire
- LS-SU – fire monitor Antifire
- PVU – universal fire tower
- BP SKID – block supplying water or foam premix to deluge water/foam sprinklers

Logical scheme. Marine berthing complex (loading dock)

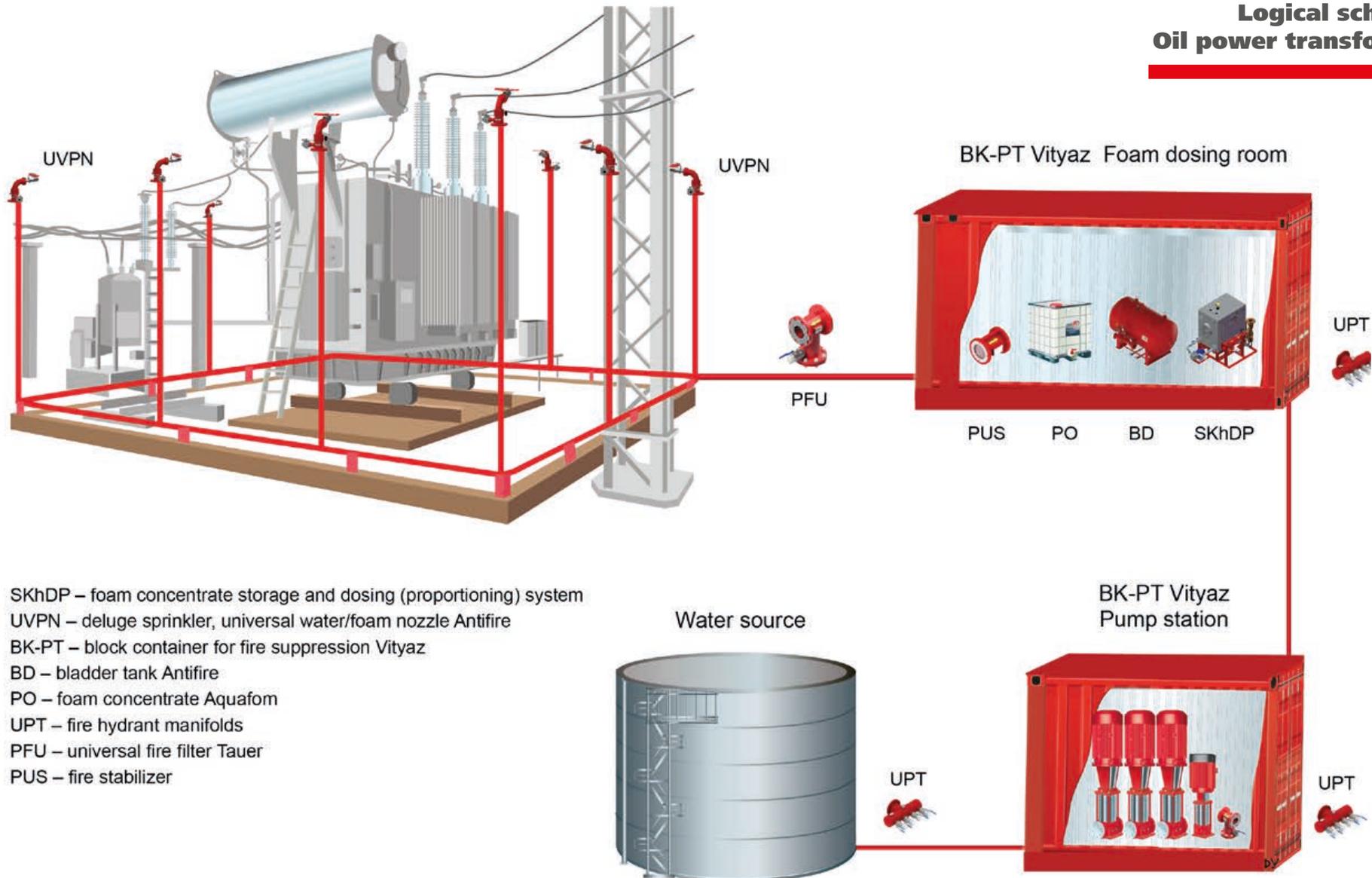


- UVPN – deluge sprinkler, universal water/foam nozzle Antifire
- PO – foam concentrate Aquaform
- LS-SU – fire monitor Antifire
- LPK – fire monitor complex Antifire
- BPG – fire hose cabinet Rubezh
- UPT – fire hydrant manifolds
- PVU – universal fire tower
- SKhDP – fire concentrate storage and dosing (proportioning) system
- BD – bladder tank Antifire
- PFU – universal fire filter Tauer
- PUS – fire stabilizer
- NP I, II – fire nozzles for water curtains
- BK-PT – block-container for fire suppression Vityaz



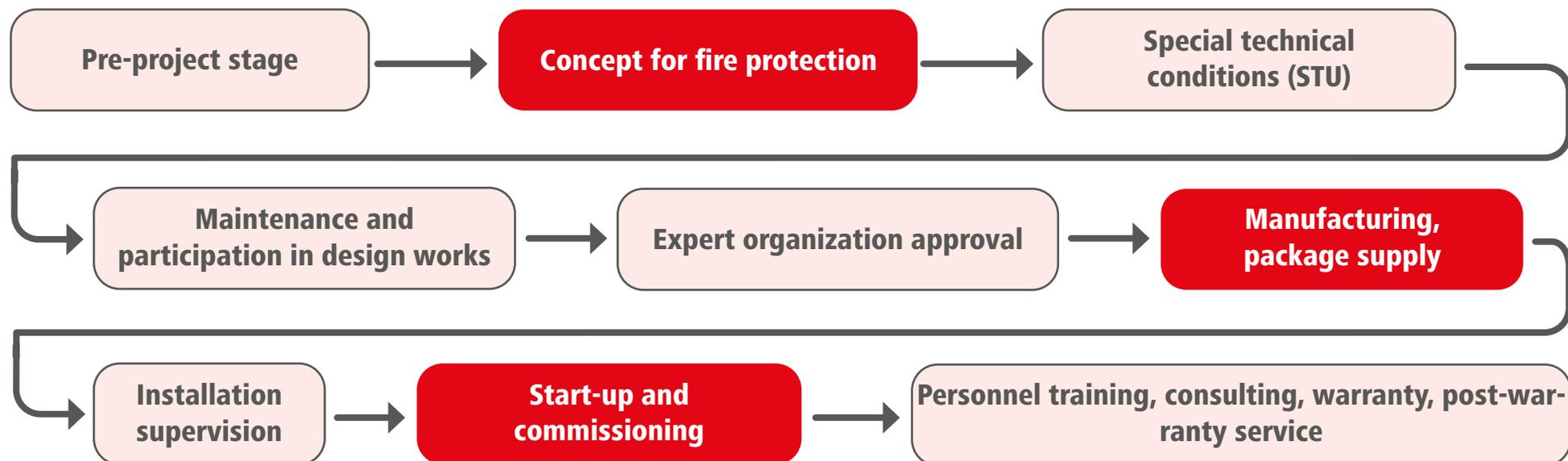
POZHNEFTEHIM SAMPLE FIREFIGHTING SYSTEMS

Logical scheme. Oil power transformer



- SKhDP – foam concentrate storage and dosing (proportioning) system
- UVPN – deluge sprinkler, universal water/foam nozzle Antifire
- BK-PT – block container for fire suppression Vityaz
- BD – bladder tank Antifire
- PO – foam concentrate Aquafoam
- UPT – fire hydrant manifolds
- PFU – universal fire filter Tauer
- PUS – fire stabilizer

Pozhneftehim has realized over 40 full-cycle large projects

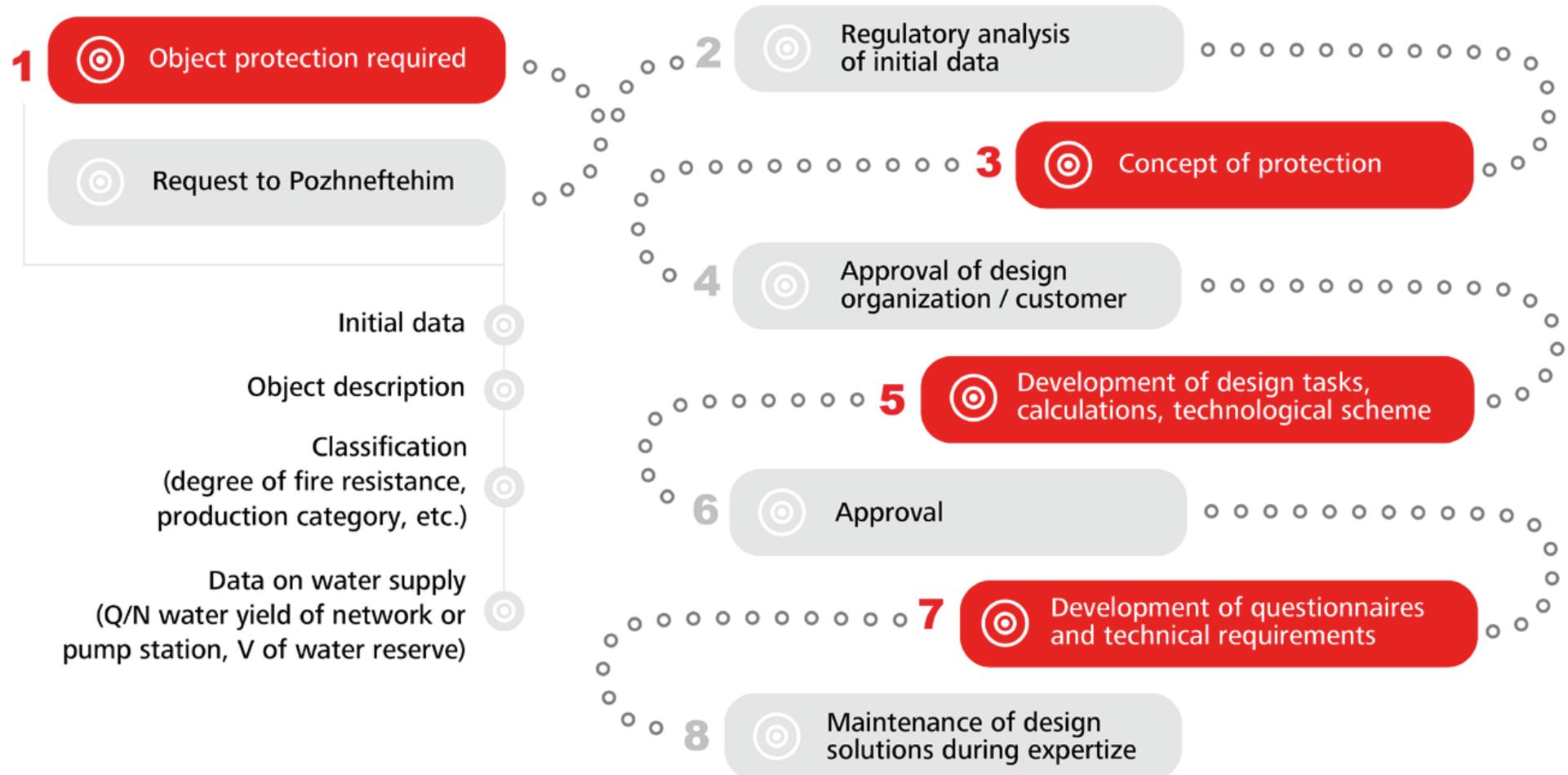


Pozhneftehim recommends choosing the single supplier and set unified technical requirements for fire extinguishing installations.

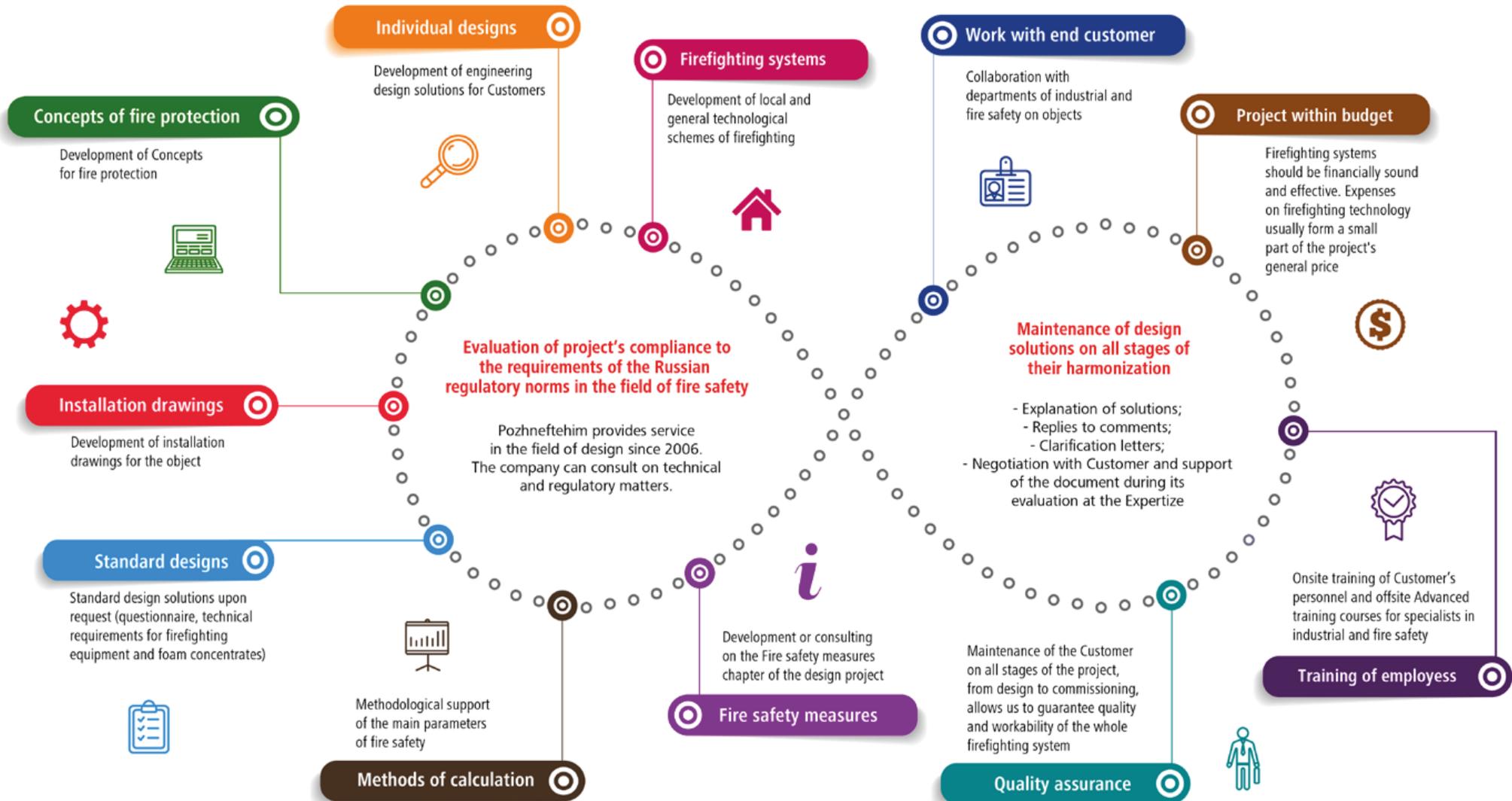
When the system is composed of equipment and foam concentrates of various manufacturers the following problems may occur at the object:

- Inconsistency of technical characteristics of foam generators, nozzles, storage and dosing systems, supplementary equipment and foam concentrate. Consequently, incorrect functioning of fire extinguishing installation.
- No company can realize the system of integrated testings and bear responsibility for the functioning of fire extinguishing system as a whole.

COLLABORATION WITH DESIGN ORGANIZATION

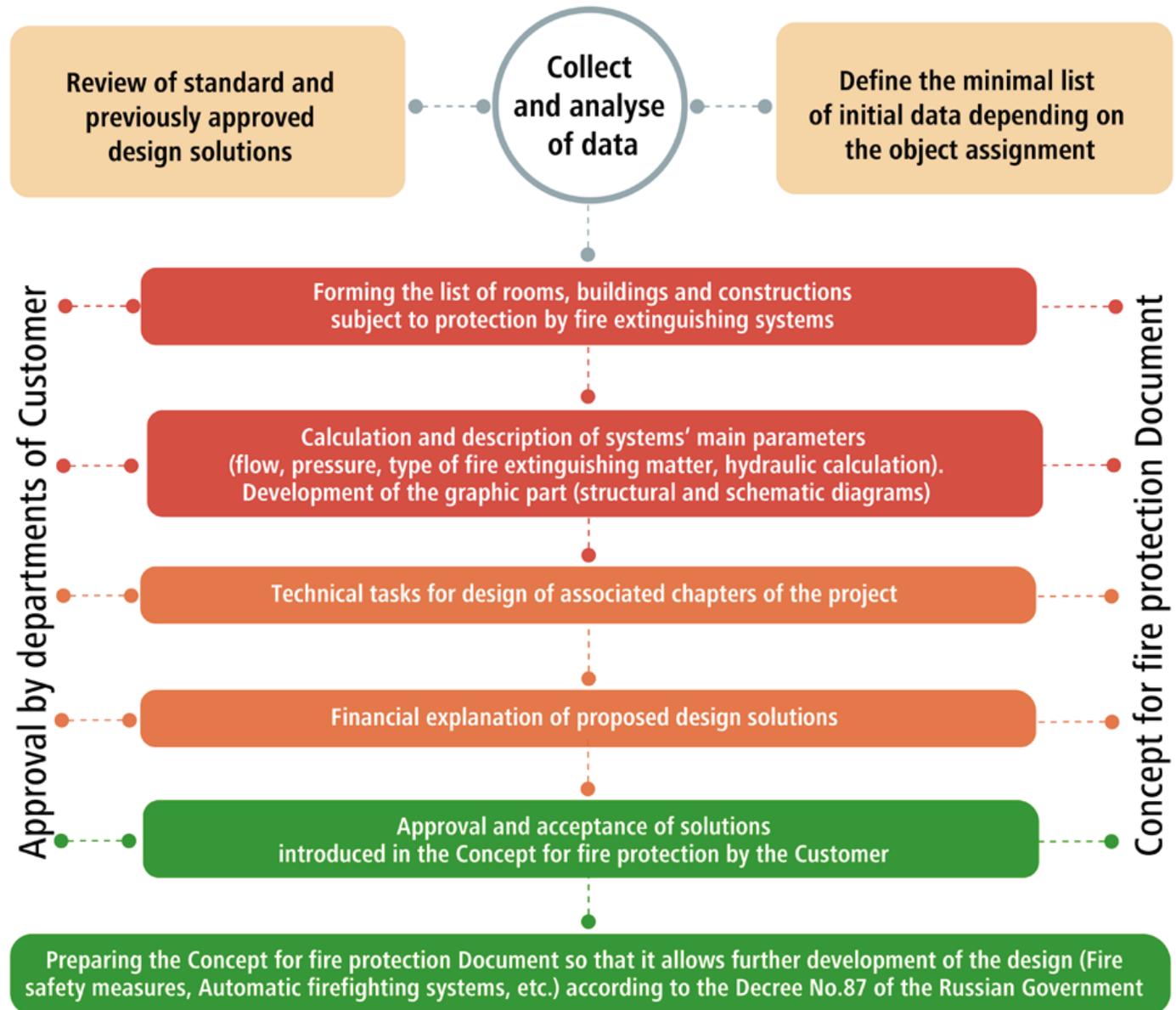


Support of design works and collaboration with customers

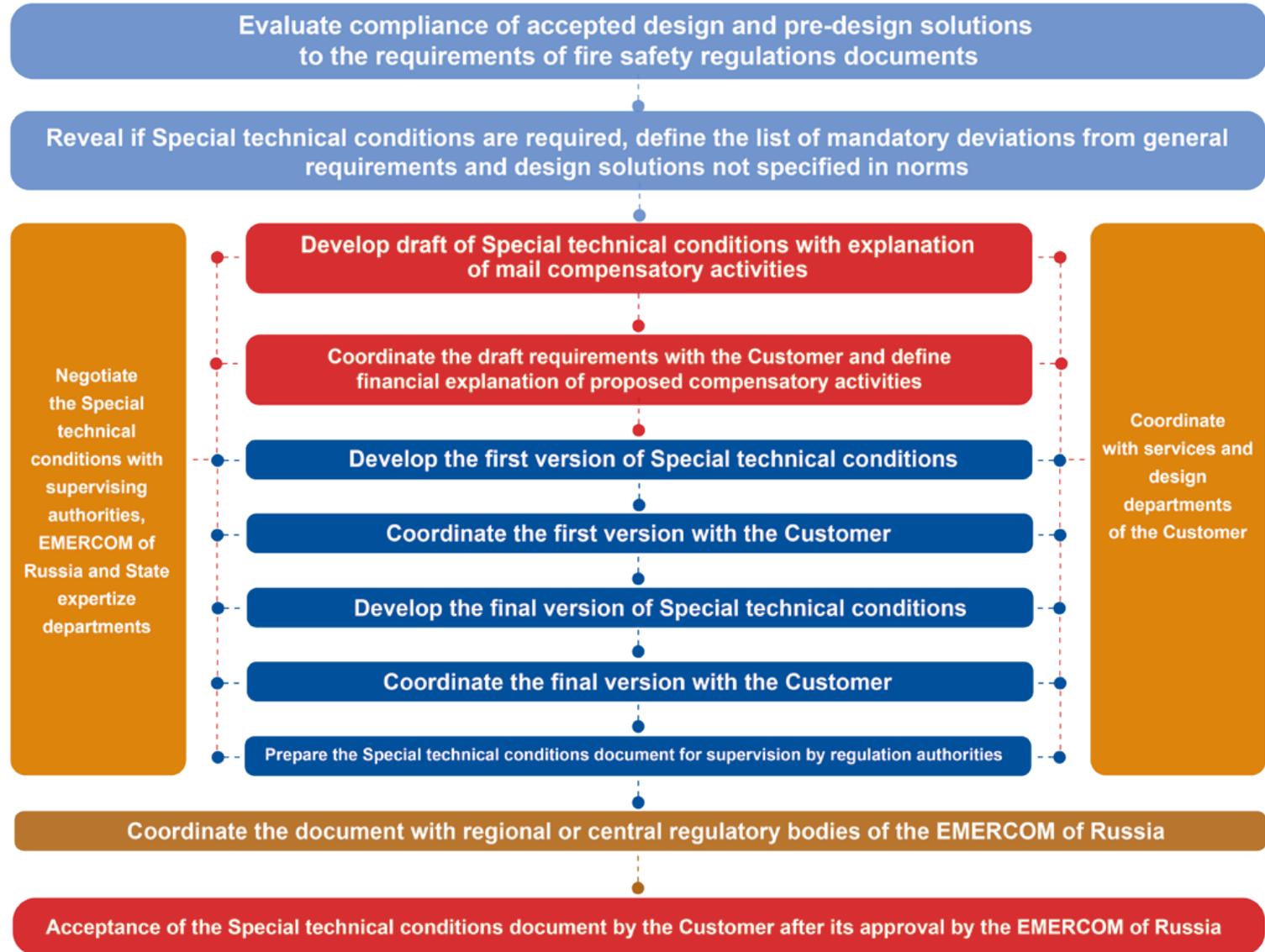


CONCEPT FOR FIRE PROTECTION

Collaboration of the Pozhneftehim technical norms department with the customer when developing the Concept for fire protection

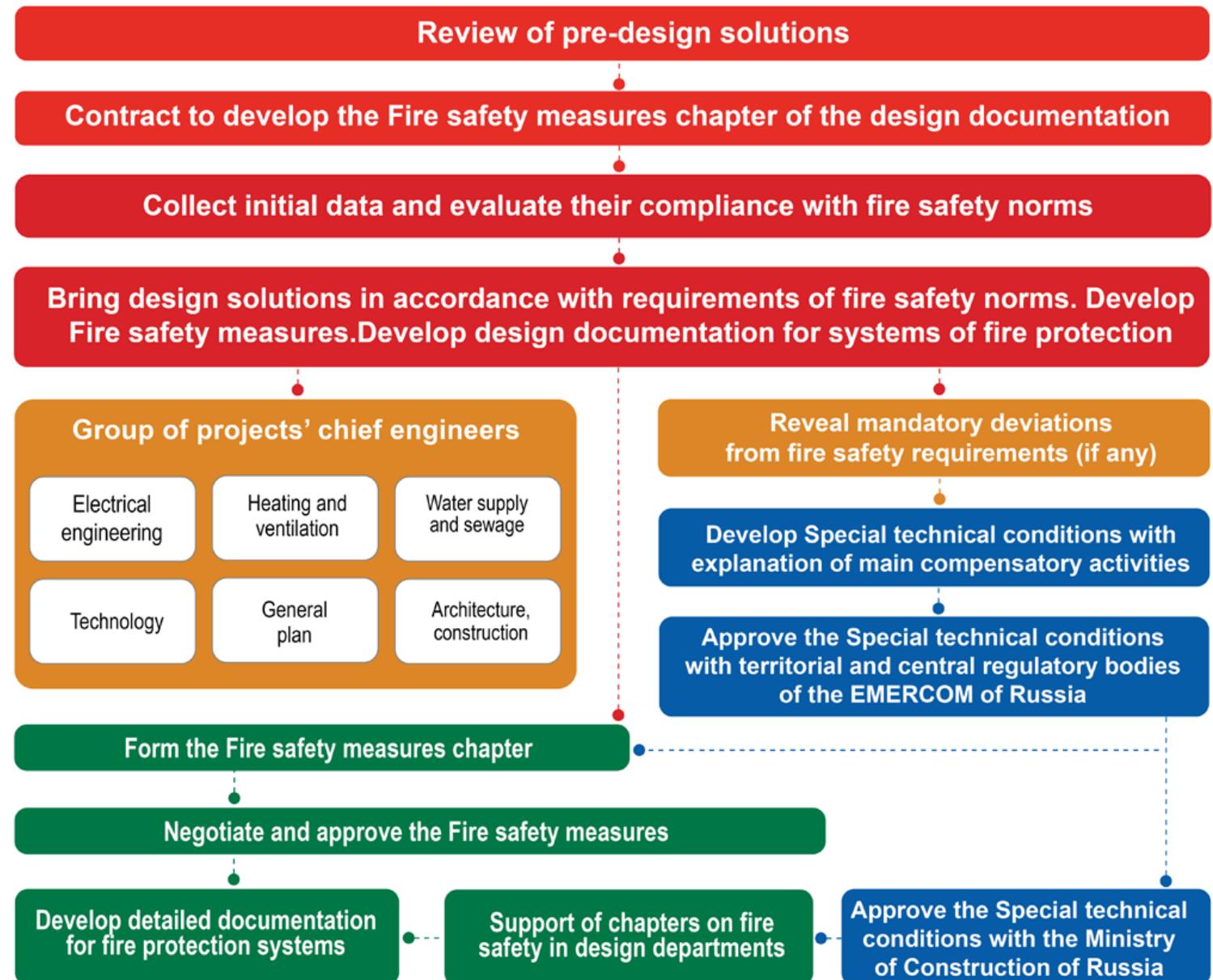


Collaboration of the Pozhneftehim technical norms department with the customer when developing the Special technical conditions (STU)



FIRE SAFETY MEASURES

Collaboration of the Pozhneftehim technical norms department with the customer when developing the the Fire safety measures chapter of the Design documentation





Amursky gas processing plant. 1. Foam firefighting system (bladder-tanks), high expansion foam generators, foam concentrate. Customer: NIPI NG Peton, Linde. 2. Nozzles and foam generators, proportioning system, foam concentrate. Customer: Tecnimont (Italy)



Afipsky oil processing plant. Package of firefighting equipment, foam concentrate storage and proportioning systems. Customer: OPTIMA ENERGOSTROY



Block conductor at Yu.Korchagin oilfield. Distributed foam concentrate proportioning system, fire cabinets. Customer: LUKOIL



Filanovsky marine ice-resistant stationary platform. Fire cabinets, foam concentrate proportioning system. Customer: LUKOIL



Moskovsky oil processing plant. Foam concentrate proportioning system, nozzles and foam generators. Customer: Tecnimont (Italy)



Orsky oil processing plant. Package of firefighting equipment. Customer: Electrosnabsbyt, Orsknefteorgsynthes.

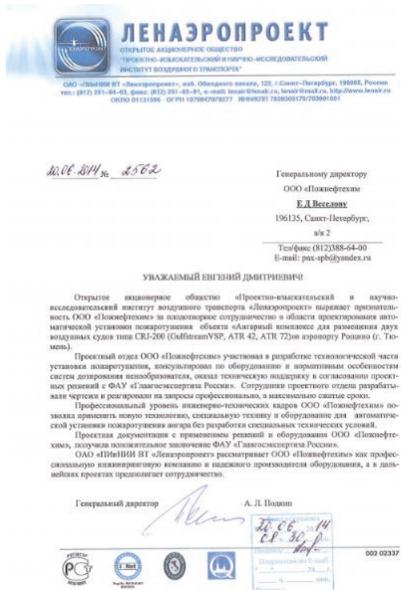


Simferopol hydroelectric station. Package of firefighting equipment, foam concentrate storage and proportioning systems. Customer: INTERENERGO



Marine terminal NOVATEK Ust-Luga. Proportioning system, foam generators, fire monitors, fire towers. Customer: NOVATEK

REFERENCE LETTERS OF CUSTOMERS AND PARTNERS



OAO PliiNII VT Lenaeroproekt expresses gratitude to Pozhneftehim LLC for fruitful cooperation in designing the automatic fire extinguishing system for the object «Hangar <...> at Roshchino airport (Tumen). <...> The design documentation with Pozhneftehim solutions and equipment has received the approval from the FAA Glavgosexpertiza of Russia. OAO PliiNII VT Lenaeroproekt considers Pozhneftehim LLC as a professional engineering company and a reliable manufacturer of equipment, and offers cooperation in further projects.



<...> Based on the results of the work carried out by the Pozhneftehim LLC specialists in close cooperation with the plant's services and the General design organization, a new document was issued. It removes problems that arose earlier and reflects all the necessary issues for further design and construction. I express my full satisfaction with the joint work of the plant's services and note the possibility of further cooperation between **OAO Slavneft-YANOS** and Pozhneftehim LLC on the design of the plant's fire protection systems < ... > and on the use of equipment and foam concentrates manufactured by Pozhneftehim LLC <...>.



ZAO Yuzhtekhmontazh is the General contractor for the construction of the facility of the Federal state unitary enterprise KAVKAZ of Rosrezerv. The Pozhneftehim group of companies was selected as the manufacturer of the fire equipment package for the foam fire extinguishing system. In the course of work, the specialists of the management department, as well as the design, regulatory and production departments of Pozhneftehim group have proven positive and successful. During the execution of the work, the collaboration with the design organization was performed correctly, various issues were quickly resolved taking into account the additional tasks of the Customer. The equipment is manufactured with high quality and on time with the exact fulfillment of the contract requirements. <...>



NOVATEK-Ust-Luga LLC is satisfied with the cooperation with Pozhneftehim LLC, which began in 2008 at the design stage of the facility (with the development of the concept for fire protection of the facility and STU for fire safety). For 10 years of joint work, the Pozhneftehim LLC has fulfilled its warranty obligations and promptly responded and responds to questions of post-warranty repairs and services. NOVATEK-Ust-Luga LLC operates a large number of equipment manufactured by your company <...>. We hope to continue the mutually beneficial cooperation in the coming years.



World of fire safety technologies

Pozhneftehim LLC License of EMERCOM of Russia No. 2-5-01526 dated 26.12.2013

License of the Ministry of Education of the Tula region No. 0133/03315 dated 30.09.2016

Membership in the Association of designers of fire protection systems SRO since 22.03.2010 (access to works that influence safety of objects of capital construction including hazardous and technically complicated objects)

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