

# **KOZLODUY NPP EAD Kozloduy**

**Bulgaria, Phone +359 973 7 35 30, Fax: +359 973 7 60 27**

**TO ALL**

**INTERESTED PARTIES**

## **CALL FOR MARKET CONSULTATIONS № 41101**

**SUBJECT:** Conducting market consultations on the grounds of Art. 44 of the Public Procurement Act (PPA) for the provision of indicative proposals for "Re-qualification of safety related valves for Units 5 and 6 of Kozloduy NPP EAD for severe environmental conditions (LOCA, HERB) during the extended period of operation"

**Dear Sirs,**

Kozloduy NPP Plc informs all interested parties that in connection with the preparation for the award of a public procurement contract and the estimation of an estimated value, on the grounds of Art. 44 of the PPA, it calls for gets indicative offers for "Re-qualification of safety related valves for Units 5 and 6 of Kozloduy NPP EAD for severe environmental conditions (LOCA, HERB) during the extended period of operation".

Offers shall include:

- single and total cost for re-qualification of valves;
- time limit for performance of the service;
- exact address and contact person, telephone, fax, e-mail, internet address.

Inquiries regarding the market consultations can be made up to 1600 h on 27.05.2019 to e-mail: [commercial@npp.bg](mailto:commercial@npp.bg) as the clarifications will be published in the Buyer profile - Market Consultations section.

Deadline for submission of indicative offers: 16<sup>00</sup> h on 31.05.2019 at e-mail: [commercial@npp.bg](mailto:commercial@npp.bg).

Indicative offers and any other information exchanged on market consultations will be published in the Buyer profile - Market Consultations section.

By submitting an indicative offer, each participant at the market consultations agrees that the offer and any other information provided as a result of the market consultations will be publicly available on the Kozloduy NPP EAD website.

If the compliance with the principle of equal treatment can not be ensured, regardless of the compliance with the requirements of Article 44, Paragraph 3 of the PPA, the candidate or the participant involved in the market consultations shall be removed from the procedure if he can not prove, that his participation does not lead to a breach of that principle.

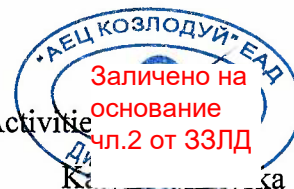
The Contracting Authority reserves his right to use indicative offers received in the course of market consultations for the award of public contracts up to the value thresholds of Article 20, paragraph 4 of the PPA.

Further information can be obtained from Violetka Dimitrova, Head of Contracts Department, Commercial Division, phone +359 97373977, e-mail: VSDimitrova@npp.bg.

Attachments:

1. Technical requirements;
2. Preliminary list of valves within the service scope

Director of Legal and Commercial Activities



## Kozloduy NPP Units 5 and 6

Environmental qualification (LOCA, HELB) of safety related valves for the intended period of operation 30 years, consisting of:

1. Scoping and screening based on safety classification.
2. Commodity grouping.
3. Degradation mechanism and ageing effects identification.
4. Ageing management recommendation.
5. Obsolescence evaluation.
6. Development of qualification methodology.
7. Qualification and analysis of results.

## ПРИЛОЖЕНИЕ 1: Предварителен списък на арматурите, влизаци в обема на услугата

Таблица 1 – Списък на арматура (с електрически и пневмопривод), поставена в помещения на околната среда LOCA, HELB, Блок 5

|    | Помещение околна среда | Обозначение  | Тип                           | Тип на привода/двигателя   | Производител на арматурата /двигателя |
|----|------------------------|--|-------------------------------|----------------------------|---------------------------------------|
| 1  |                        | 5TX53,54,63,64,73,74,83,84S01  | 1150-25-0A                    | ЭМК 1000                   | ЧЗЭМ                                  |
| 2  |                        | 5TX50,60,70,80S05  | 960-300/350-Э                 | 5AC132M4A5B3               | ЧЗЭМ                                  |
| 3  |                        | 5TX41,42,43,44S01,02   | 1080-400-3                    | Б.099.102-03М              | Русия                                 |
| 4  | 5A820                  | 5TX53,54,63,64,73,74,83,84S02  | NICO 4000, тип:110 - 212*Du25 | M76371-C1523-F231-ZL18+R04 | Sempell Германия                      |
| 5  | HELB                   | 5TX50,60,70,80S06 (краен изключвател)  | Eldidor Ду600/500             | 41902-15C00                | Babcock/Siemens                       |
| 6  |                        | 5TX 50,60,70,80S09,10,11,13,14,15;   | Nico 3000 112-236П            | 0,54кW*SIEMENS             | Babcock/Siemens                       |
| 7  |                        | 5TX50,60,70,80S09,10,11,13,14,15;<br>5TX50,60,70,80S05 (устройства за комутация)<br>5 TX41, 42, 43, 44S01, S02 | УКП                           |                            | Русия                                 |
| 8  | 5A826/1<br>HELB        | 5VF20S03   | 205AJ11.2 V 1124              | M76341-E5722-H             | Persta Siemens;<br>Германия           |
| 9  | 5A826/2<br>HELB        | 5VF10S03   | 205AJ11.2 V 1124              | M76341-E5722-H             | Persta Siemens;<br>Германия           |
| 10 | 5A910/1<br>HELB        | 5TL48S10,11  | Ду200                         | AUMA SAI 6-E63             | Th.Jansen AUMA<br>Германия            |
| 11 | 5ГА306/1<br>LOCA       | 5TQ14S07,08  | К326370030 -030-032 Ду 32     | Клас А ТЭ099979104         | Русия                                 |
| 12 |                        | 5TQ12S02,03; 5TQ41S05  | 200AJ                         | M76341-G5722-J*20-ZG77     | Persta/Siemens                        |

|    | Помещение<br>околона среда | Обозначение  | Тип                           | Тип на привода/двигателя | Производитель на<br>арматурага /двигателя |
|----|----------------------------|--|-------------------------------|--------------------------|---|
| 13 | 5ГА306/2<br>LOCA           | 5TQ12S05; 5TQ13S09; 5TQ14S17                         | Nico 3000 114-236IV           | M76341-C5422-D*20-ZG77   | Babcock/Siemens                           |
| 14 |                            | 5TQ12S04,06,07; 5TQ41S01                             | Permador 703-225              | M76341-M6252-P*20-ZG77   | Babcock/Siemens                           |
| 15 |                            | 5TQ13S05,06,07,08                                    | 140-526                       | M76341-G5852-K*20-ZG77   | Babcock/Siemens                           |
| 16 |                            | 5TG11S03,04  | 400JN                         | Пневмо ZD250/40x295FS    | Persta Германия                           |
| 17 |                            | 5TF21S05M; TL02S03, S04,                             | Nico 3000 114-236I            | Пневмо ZD67/25x4FS       | Babcock Германия                          |
| 18 |                            | 5TQ24S07,08  | K3 26370                      | ТЭ 099.191-04            | Россия                                    |
| 19 |                            | 5TQ22S02,03; 5TQ42S05                                | 200AJ                         | M76341-G5722-J*20-ZG77   | Persta/Siemens                            |
| 20 |                            | 5TQ22S05; 5TQ23S09; 5TQ24S17; 5TQ40S06               | Nico 3000 114-236IV           | M76341-C5422-D*20-ZG77   | Babcock/Siemens                           |
| 21 |                            | 5TQ22S04,06,10,22; 5TQ40S01,02,03,04,05;<br>5TQ42S01 | Permador 703-225              | M76341-M6252-P*20-ZG77   | Babcock/Siemens                           |
| 22 |                            | 5TQ40S07   | Nico 3000 114-236II           | M76341-C5422-D*20-ZG77   | Babcock/Siemens                           |
| 23 |                            | 5TQ40S08   | SI 61                         | Si6302.14.16.26-AK-38    | Болл-Ройтер Германия                      |
| 24 |                            | 5TQ23S05,06,07,08                                    | 140-526                       | M76341-G5852-K*20-ZG77   | Babcock/Siemens                           |
| 25 |                            | 5TQ00S03,S06,S09,S12,S15                             | DN10 NICO3000<br>Тип 114-236I | Пневмо ZD67/25x4FS       | Babcock Германия                          |
| 26 |                            | 5TG12S03,04  | 400JN                         | Пневмо ZD250/40x295FS    | Persta Германия                           |
| 27 |                            | 5TQ34S07,08  | K3 26370                      | ТЭ 099.191-04            | Россия                                    |
| 28 |                            | 5TQ32S02,03; 5TQ43S05                                | 200AJ                         | M76341-G5722-J*20-ZG77   | Persta/Siemens                            |

|    | Помещение<br>околона среда | Обозначение   | Тип                  | Тип на привода/двигателя | Производитель на<br>арматурага /двигателя |
|----|----------------------------|---|----------------------|--------------------------|---|
| 29 |                            | 5TQ32S05; 5TQ33S09; 5TQ34S17  | Nico 3000 114-236IV  | M76341-C5422-D*20-ZG77   | Babcock/Siemens                           |
| 30 |                            | 5TQ32S04,06,10,22; 5TQ43S01   | Permador 703-225     | M76341-M6252-P*20-ZG77   | Babcock/Siemens                           |
| 31 |                            | 5TQ33S05,06,07,08   | 140-526              | M76341-G5852-K*20-ZG77   | Babcock/Siemens                           |
| 32 |                            | 5TQ40S09  | SI 61                | Si6302.14.16.26-AK-38    | Бопп-Ройтер Германия                      |
| 33 |                            | 5TG13S03,04   | 400JN                | Пневмо ZD250/40x295FS    | Persta Германия                           |
| 34 |                            | 5TG20S03  | 9088A                | Пневмо ZD180/35x44FS     | Persta Германия                           |
| 35 |                            | 5VF30S04; 5VF60S01  | 400JN                | Пневмо ZD220/35x240FS    | Persta Германия                           |
| 36 |                            | 5TH20S01  | Nico 3000 114-236I   | Пневмо ZD67/25x6FS       | Babcock Германия                          |
| 37 |                            | 5TK40S03; 5TK80S01  | 140-226              | Пневмо ZD510/63x15FS     | Babcock Германия                          |
| 38 |                            | 5TK50S03  | Nico 3000 114-236III | Пневмо ZD180/35x10FS     | Babcock Германия                          |
| 39 |                            | 5TK60S01; 5TZ21S04; 5TP15S01  | Nico 3000 114-236I   | Пневмо ZD90/35x10FS      | Babcock Германия                          |
| 40 |                            | 5TP60S04  | Nico 3000 114-236    | Пневмо ZD67/25x6FS       | Babcock Германия                          |
| 41 |                            | 5TV10S02,08,13,18,23,28,33,38,43,48,53,59,62;<br>5TV30,40,50S03; 5TV20S25; 5TY20S05 | Nico 3000 114-236III | Пневмо ZD90/25x4FS       | Babcock Германия                          |
| 42 |                            | 5TL02S05,S06  | NICO 114-236*Du10    | ZD67/25x4FS              | Babcock Германия                          |
| 43 |                            | 5TY10S03  | 9084A-205 AN 74.2    |                          | Persta Германия                           |
| 44 |                            | 5UE20S12  | Nico 3000 114-236III | Пневмо ZD90/35x10FS      | Babcock Германия                          |
| 45 | 5ГА307/1<br>LOCA           | 5VF10S04; 5VF40S01  | 400JN                | Пневмо ZD220/35x240FS    | Persta Германия                           |

|    | Помещение<br>околона среда | Обозначение                           | Тип                                | Тип на привода/двигателя                 | Производитель на<br>арматурага /двигателя |
|----|----------------------------|---------------------------------------|------------------------------------|--|---|
| 46 | 5ГА307/2<br>LOCA           | 5VF20S04; 5VF50S01                    | 400JN                              | Пневмо ZD220/35x240FS                    | Persta Германия                           |
| 47 | 5ГА308<br>LOCA             | 5TF10S03, 5TF20S01;                   | 400JN                              | Пневмо ZD250/40x295FS                    | Persta Германия                           |
| 48 | 5ГА311<br>LOCA             | 5YD50,60S06; 5YD50,60S07              | 400JN                              | Пневмо ZD220/35x240FS                    | Persta Германия                           |
| 49 |                            | 5YR21S03,04; 5YR22S03,04; 5YR23S03,04 | VS66.320.25/50-<br>00.111.112 Dn25 | электромагнит                            | Sempell Германия                          |
| 50 |                            | 5YR11,12S01; 5YR11,12S02              | Пермадор 703-225<br>Dn125/125      | M76371-M5822-K*20                        | Babcock/Siemens                           |
| 51 | 5ГА403<br>LOCA             | 5YR21S08                              | ETF2.320.25-<br>00.33BO            | M76371-C7822-E*20-ZG17                   | Sempell/Siemens                           |
| 52 |                            | 5YR21S09                              | VCA1.320.25.25.112                 | электромагнит                            | Sempell Германия                          |
| 53 |                            | 5YR51,52,53,61,62,63S01               | 205 AL 84.2<br>DN65/50             | S-SIWI-AS M76371-<br>E1422(G1421;F1421); | Persta Siemens; Sipos<br>Германия         |
| 54 | 5ГА405/3<br>LOCA           | 5YT13,14S01; 5YT13,14S02              | Permador 703-225                   | M76341-N6222-K*22-ZG77                   | Babcock/Siemens                           |
| 55 | 5ГА405/6<br>LOCA           | 5YT11,12S01; 5YT11,12S02              | Permador 703-225                   | M76341-N6222-K*22-ZG77                   | Babcock/Siemens                           |
| 56 |                            | 5RY11,12,13,14S01,06                  | 205AN11                            | Пневмо ZD240/30x25                       | Persta Германия                           |
| 57 | 5ГА406<br>LOCA             | 5UX11,12S33                           | DN300/250 PN40                     | Пневмо ZD250/40x295FS                    | Persta Германия                           |
| 58 |                            | 5UT30S06                              | 205AJ74.2 V 1231                   | M76341-F5722-H*20-ZG77+L12               | Persta/Siemens                            |
| 59 | 5ГА407/1<br>LOCA           | 5YR01,02,03S01                        | 205 AL 84.2 DN32                   | S-SIWI-AS M76371-<br>E1422(G1421;F1421)  | Persta Siemens Sipos<br>Германия          |
| 60 |                            | 5YR55S01                              | NUCA A320-типIV<br>Dn25 Pn250      | M76341-C1623-E231-Z                      | KSB Siemens Germany                       |
| 61 | 5ГА504/1<br>LOCA           | 5VB10S03; 5VB20S01                    | 400JN                              | Пневмо ZD250/40x295FS                    | Persta Германия                           |
| 62 |                            | 5TP60S03                              | Nico 3000 114-236                  | Пневмо ZD67/25x6FS                       | Babcock Германия                          |

|    | Помещение<br>околна среда | Обозначение       | Тип                             | Тип на привода/двигателя                           | Производител на<br>арматурата /двигателя |
|----|---------------------------|-------------------|---------------------------------|--|--|
| 63 |                           | 5TP10S03,S05      | DN50 NICO3000<br>Тип 114-236    | Пневмо ZD90/35x10FS                                | Vabcock Германия                         |
| 64 |                           | 5TP20S03          | Nico 3000 114-236I              | Пневмо ZD90/35x8FS                                 | Vabcock Германия                         |
| 65 |                           | 5YB56S03          | DN10 NICO3000<br>Тип 114-236III | Пневмо ZD90/25x4FS                                 | Vabcock Германия                         |
| 66 |                           | 5UT10S06          | 205AJ74.2 V 1231                | M76341-F5722-H*20-ZG77+L12                         | Persta/Siemens                           |
| 67 | 5ГА504/3<br>LOCA          | 5TN30S03          | DN50 NICO3000<br>Тип 114-236I   | ZD90/35x10FS                                       | Vabcock Германия                         |
| 68 | 5ГА504/4<br>LOCA          | 5YB55S03          | DN10 NICO3000<br>Тип 114-236III | Пневмо ZD90/25x4FS                                 | Vabcock Германия                         |
| 69 | 5ГА506/1<br>LOCA          | 5YR11,12,41,42S01 | 205 AL 84.2 DN15                | Sipos тип S-SIWI-AS M76371-<br>E1422(G1421;F1421); | Persta; Siemens;<br>Германия             |
| 70 |                           | 5YR60S01, S02     | Niko3000 DN15 тип<br>114-236 IV | M76341-C5422D                                      | Vabcock Германия<br>Siemens              |
| 71 | 5ГА506/2<br>LOCA          | 5YR21,22,31,32S01 | 205 AL 84.2 DN15                | Sipos тип S-SIWI-AS M76371-<br>E1422(G1421;F1421); | Persta; Siemens;<br>Германия             |
| 72 | 5ГА603/1<br>LOCA          | 5XQ10,99S01:      | Nico 3000 114-236I              | Пневмо ZD90/35x10FS                                | Vabcock Германия                         |
| 73 |                           | 5TL42S03          | Ду400                           | привод AUMA SAI 6-E63                              | Th.Jansen AUMA<br>Германия               |
| 74 | 5ГА701<br>LOCA            | 5TL02S03,04,05,06 | Nico 3000 114-236I              | Пневмо ZD67/25x4FS                                 | Vabcock Германия                         |
| 75 |                           | 5YR24S01,02       | K3 26370                        | ТЭ 099.191-04                                      | Русия                                    |
| 76 |                           | 5TL02S01, S02     | Ду1000                          | привод AUMA SAI 12-E125                            | Th.Jansen AUMA<br>Германия               |

Таблица 2 – Списък на арматура (с електрически и пневмопривод), поставена в помещения с условия на околната среда LOCA, HELV, Блок 6



|    | Помещение<br>околона среда | Обозначение  | Тип                 | Тип на привода/двигателя       | Производитель на<br>арматура/двигателя |
|----|----------------------------|--|---------------------|--------------------------------|--|
| 1  |                            | 6ТХ53,54,63,64,73,74,83,84S01  | 1150-25-0А          | ЭМК 1000                       | ЧЗЭМ                                   |
| 2  |                            | 6ТХ50,60,70,80S05  | 960-300/350-Э       | 5АС132М4А5В3                   | ЧЗЭМ                                   |
| 3  |                            | 6ТХ41,42,43,44S01,02   | 1080-400-3          | Б.099.102-03М                  | Россия                                 |
| 4  | 6А820<br>HELB              | 6ТХ53,54,63,64,73,74,83,84S02  | Nico 4000 110-212   | M76371-C1523-F231-<br>ZL18+R04 | Sempell/ Siemens                       |
| 5  |                            | 6ТХ50,60,70,80S06 (краен изключвател)  | 614 - 322*Du600/500 | 41902-15C00                    | Babcock/Siemens                        |
| 6  |                            | 6ТХ50,60,70,80S09,10,11,13,14,15;  | Nico 3000 112-236П  | M76341-C7922-D*20              | Babcock/ Siemens                       |
| 7  |                            | 6ТХ50,60,70,80S09,10,11,13,14,15;<br>6ТХ50,60,70,80S05 (устройства за комутация) | УКП                 |                                | Россия                                 |
| 8  | 6А826/1<br>HELB            | 6VФ20S03   | A10823-0040 Du50    | МоА 123-40 52021.212           | Sigma Чехия                            |
| 9  | 6А826/2<br>HELB            | 6VФ10S03   | A10823-0040 Du50    | МоА 123-40 52021.212           | Sigma Чехия                            |
| 10 | 6А910/1<br>HELB            | 6ТL48S10,11  | Ду200               | AUMA SAI 6-E63                 | Th.Jansen AUMA<br>Германия             |
| 11 |                            | 6ТQ14S07,08  | A10 823-180/350-32  | SMB 000/5/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 12 | 6А306/1<br>LOCA            | 6ТQ12S02,03; 6ТQ41S05  | A10823-0250         | SMB I/60/4                     | Sigma Чехия/Limitorque<br>Нидерландия  |
| 13 |                            | 6ТQ12S05; 6ТQ13S09; 6ТQ14S17   | A10 823-180/350-15  | SMB 000/2/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 14 |                            | 6ТQ12S04,06,07; 6ТQ41S01   | Permador 713-625    | M76371-M2258-P*02-Z            | Babcock/Siemens                        |

|    | Помещение<br>околона среда | Обозначение  | Тип                           | Тип на привода/двигателя       | Производитель на<br>арматура/двигателя |
|----|----------------------------|--|-------------------------------|--------------------------------|--|
| 15 |                            | 6TQ13S05,06,07,08                                    | 140-226                       | M76371-G1858-P-K*02-Z          | Babcock/Siemens                        |
| 16 |                            | 6TG11S03,04  | 400JN                         | Пневмо ZD250/40x295FS          | Persta Германия                        |
| 17 |                            | 6TF21S05; 6TL02S03,S04,S05,S06                       | Nico 3000 114-236I            | Пневмо ZD67/25x4FS             | Babcock Германия                       |
| 18 |                            | 6TQ24S07,08  | A10823-0250                   | SMB 000/5/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 19 |                            | 6TQ22S02,03; 6TQ42S05                                | A10823-0250                   | SMB I/60/4                     | Sigma Чехия/Limitorque<br>Нидерландия  |
| 20 |                            | 6TQ22S05; 6TQ23S09; 6TQ24S17; 6TQ40S06               | A10823-0250                   | SMB 000/2/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 21 |                            | 6TQ22S04,06,10,22; 6TQ40S01,02,03,04,05;<br>6TQ42S01 | Permador 713-625              | M76371-M2258-P*02-Z            | Babcock/Siemens                        |
| 22 | 6ГА306/2<br>LOCA           | 6TQ40S07   | Nico 3000 114-236IV           | M76341-C5422-D*20-<br>ZG77+L12 | Babcock/Siemens                        |
| 23 |                            | 6TQ40S08   | SI 61                         | Si6302.14.16.26-AK-38          | Бопп-Ройтер Германия                   |
| 24 |                            | 6TQ23S05   | 140-226                       | M76341-G5752-J*20-<br>ZG77+L12 | Babcock/Siemens                        |
| 25 |                            | 6TQ00S03,S06,S09,S12,S15                             | DN10 NICO3000 Тип<br>114-236I | Пневмо ZD67/25x4FS             | Babcock Германия                       |
| 26 |                            | 6TQ23S06,07,08                                       | 140-226                       | M76371-G1858-P-K*02-Z          | Babcock/Siemens                        |
| 27 |                            | 6TG12S03,04  | 400JN                         | Пневмо ZD250/40x295FS          | Persta Германия                        |
| 28 |                            | 6TG20,21SS03   | 9088A                         | ZD180/35x44FS                  | Persta Германия                        |

|    | Помещение<br>околона среда   | Обозначение                            | Тип                            | Тип на привода/двигателя | Производитель на<br>арматура/двигателя |
|----|--|--|--------------------------------|--------------------------|--|
| 29 | 6ГА306/3<br>LOCA   | 6TQ34S07,08                            | A10823-0250                    | SMB 000/5/4              | Sigma Чехия/Limitorque<br>Нидерландия  |
| 30 |  | 6TQ32S02,03; 6TQ43S05                  | A10823-0250                    | SMB I/60/4               | Sigma Чехия/Limitorque<br>Нидерландия  |
| 31 |  | 6TQ32S05; 6TQ33S09; 6TQ34S17           | A10823-0250                    | SMB 000/2/4              | Sigma Чехия/Limitorque<br>Нидерландия  |
| 32 |  | 6TQ32S04,06,10,22;                     | Permador 713-625               | M76371-M2258-P*02-Z      | Babcock/Siemens                        |
| 33 |  | 6TQ43S01                               | K3-300-00.000 Du300 -<br>Pu25; | ОГ11РУ2Э                 | Чеховский завод<br>ЭнергомашСССР       |
| 34 |  | 6TQ33S05,06,07,08                      | 140-226                        | M76371-G1858-P-K*02-Z    | Babcock/Siemens                        |
| 35 |  | 6TQ40S09                               | SI 61                          | Si6302.14.16.26-AK-38    | Болл-Ройтер Германия                   |
| 36 |  | 6TG13S03,04                            | 400JN                          | Пневмо ZD250/40x295FS    | Persta Германия                        |
| 37 |  | 6TG20S03                               | 9065A-400JN 84.2               | Пневмо ZD180/35x44FS     | Persta Германия                        |
| 38 |  | 6VF10,20,30S04; 6VF60S01; 6TG21S03     | 400JN                          | Пневмо ZD220/35x240FS    | Persta Германия                        |
| 39 |  | 6TH20S01; 6TP60S04                     | Nico 3000 114-236I             | Пневмо ZD67/25x6FS       | Babcock Германия                       |
| 40 |  | 6TK40S03; 6TK80S01                     | 140-526                        | Пневмо ZD510/63x15FS     | Babcock Германия                       |
| 41 |  | 6TK50S03                               | Nico 3000 114-236III           | Пневмо ZD180/35x10FS     | Babcock Германия                       |
| 42 |  | 6TK60S01; 6TZ21S04; 6TP15S01; 6TP10S05 | Nico 3000 114-236I             | Пневмо ZD90/35x10FS      | Babcock Германия                       |
| 43 | 6TV10S02,08,13,18,23,28,33,38,43,48,53,59,62;<br>6TV30,40,50S03; 6TV20S25; 6TY20SS05 | Nico 3000 114-236III                   | Пневмо ZD90/25x4FS             | Babcock Германия         |  |

|    | Помещение<br>околона среда | Обозначение                            | Тип                                | Тип на привода/двигателя       | Производитель на<br>арматура/двигателя |
|----|----------------------------|--|------------------------------------|--------------------------------|--|
| 44 |                            | 6TY10S03                               | 9084A-205 AN 74.2                  |                                | Persta Германия                        |
| 45 |                            | 6UE20S12                               | Dy32 A10821-87-<br>4540.2A         |                                | Sigma Чехия                            |
| 46 | 6ГА307/1<br>LOCA           | 6VF40S01                               | 400JN                              | Пневмо ZD220/35x240FS          | Persta Германия                        |
| 47 | 6ГА307/2<br>LOCA           | 6VF50S01                               | 400JN                              | Пневмо ZD220/35x240FS          | Persta Германия                        |
| 48 | 6ГА308<br>LOCA             | 6TF10S03, 6TF20S01;                    | 400JN                              | Пневмо ZD250/40x295FS          | Persta Германия                        |
| 49 |                            | 6TP10S03                               | DN50 NICO3000<br>Тип114-236        | Пневмо ZD90/35x10FS            | Babcock Германия                       |
| 50 | 6ГА311<br>LOCA             | 6YD50,60S06; 6YD50,60S07               | 400JN                              | Пневмо ZD220/35x240FS          | Persta Германия                        |
| 51 |                            | 6YP21S03,04; 6YP22S03,04; 6YP23S03,04; | VS66.320.25/50-<br>00.111.112 Dn25 | электромагнит                  | Sempell Германия                       |
| 52 |                            | 6YP11,12S01                            | Пермадор 713-625<br>Dn125/125      | M76371-M1822-K                 | Babcock Siemens<br>Германия            |
| 53 | 6ГА403<br>LOCA             | 6YP21S08                               | ETF2.320.25-00.33BO                | M76371-C7822-E*22-<br>ZG17+L12 | Sempell/Siemens                        |
| 54 |                            | 6YP24S01, S02                          | A10823-0250                        | SMB 000/5/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 55 |                            | 6YP11,12S02                            | Permaдор 713-625<br>Dn125/125      | M76371-M2122-K*02-Z            | Babcock/Siemens                        |
| 56 |                            | 6YP21S09                               | VCA1.320.25.25.112                 | электромагнит                  | Sempell Германия                       |
| 57 | 6ГА406<br>LOCA             | 6RY11,12,13,14S01,06                   | 9085A-205 AN 11.2                  | ZA230/35x25FS                  | Persta Германия                        |
| 58 |                            | 6UX11,12S33                            | DN300/250 PN40                     | Пневмо ZD250/40x295FS          | Persta Германия                        |

|    | Помещение<br>околона среда | Обозначение                    | Тип                             | Тип на привода/двигателя       | Производитель на<br>арматура/двигателя |
|----|----------------------------|--------------------------------|---------------------------------|--------------------------------|--|
| 59 |                            | 6UT30S06                       | A10823-0160/200-100             | Mo A 125-100 Тип<br>52021.2C32 | Sigma Чехия/Limitorque<br>Нидерландия  |
| 60 | 6ГА502/1<br>LOCA           | 6YT11,12S01; 6YT11,12S02       | Permador 703-225                | M76371-N2227-K*22-Z            | Vabcock/Siemens                        |
| 61 | 6ГА502/2<br>LOCA           | 6YT13,14S01 6YT13,14S02        | Permador 703-225                | M76371-N2227-K*22-Z            | Vabcock/Siemens                        |
| 62 |                            | 6TP60S03                       | Nico 3000 114-236I              | Пневмо ZD67/25x6FS             | Vabcock Германия                       |
| 63 |                            | 6TP20S03                       | Nico 3000 114-236I              | Пневмо ZD90/35x8FS             | Vabcock Германия                       |
| 64 | 6ГА504/1<br>LOCA           | 6YB56S03                       | DN10 NICO3000 Тип<br>114-236III | Пневмо ZD90/25x4FS             | Vabcock Германия                       |
| 65 |                            | 6UT10S06                       | A10823Г-0250                    | SMB 00/15/2                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 66 | 6ГА504/3<br>LOCA           | 6TN30S03                       | DN50 NICO3000 Тип<br>114-236I   | ZD90/35x10FS                   | Vabcock Германия                       |
| 67 | 6ГА504/4<br>LOCA           | 6YB55S03                       | DN10 NICO3000 Тип<br>114-236III | Пневмо ZD90/25x4FS             | Vabcock Германия                       |
| 68 |                            | 6YR01,02,03S01                 | A10823Г-0250                    | SMB 000/5/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 69 | 6ГА506/1<br>LOCA           | 6YR11,12,41,42S01; 6YR60S01,02 | A10823Г-0250                    | MoA40-25 Тип52020-2112         | Sigma Чехия/Limitorque<br>Нидерландия  |
| 70 |                            | 6YR51,52,53,61,62,63S01        | A10823-0250                     | SMB 00/25/4                    | Sigma Чехия/Limitorque<br>Нидерландия  |
| 71 |                            | 6YR55S01                       | NUCA A320-типIV<br>Dn25 Pn250   | M76341-C1623-E231-Z            | KSB Siemens Germany                    |

|    | Помещение<br>околона среда | Обозначение        | Тип                | Тип на привода/двигателя | Производитель на<br>арматура/двигателя |
|----|----------------------------|--------------------|--------------------|--------------------------|--|
| 72 | 6ГА506/2<br>LOCA           | 6YR21,22,31,32S01  | A10823Г-0250       | МоА40-25 Тип52020-2112   | Sigma Чехия/Limitorque<br>Нидерландия  |
| 73 | 6ГА507<br>LOCA             | 6VB10S03; 6VB20S01 | 400JN              | Пневмо ZD250/40x295FS    | Persta Германия                        |
| 74 | 6ГА603/1<br>LOCA           | 6XQ10,99S01        | Nico 3000 114-236I | Пневмо ZD90/35x10FS      | Babcock Германия                       |
| 75 |                            | 6TL02S03,04,05,06  | Nico 3000 114-236I | Пневмо ZD67/25x4FS       | Babcock Германия                       |
| 76 | 6ГА701<br>LOCA             | 6TL42S03           | Ду 400             | ел.привод АУМА SAI 6-E63 | Th.Jansen АУМА<br>Германия             |
| 77 |                            | 6TL02S01, S02      | Ду1000             | привод АУМА SAI 12-E125  | Th.Jansen АУМА<br>Германия             |