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Operational Manual
Etzel Gas-Lager - Statoil

Statoil Deutschland Storage GmbH
Dithmarscher Str. 13
26723 Emden

(hereinafter referred to as "SDS")

1. Introduction

This Operating Manual for the Etzel Gas-Lager – Statoil describes the provisions necessary for the operational application of the Storage Contract between SDS and the Storage Customer.

The definitions contained in the Terms and Conditions shall apply. Upon the conclusion of a Storage Contract between SDS and the Storage Customer the Operational Manual shall form an integral part of the Storage Contract.

2. Cooperation

SDS and the Storage Customer shall inform each other immediately of any instances affecting the operational application of the Storage Contract.

If the Storage Customer and/or SDS are unable to use the communication paths that have been set up due to technical problems both Parties shall agree upon and shall temporarily use an alternative communication path. The Storage Customer and/or SDS shall immediately take all appropriate measures to reinstate the availability of the originally agreed communication paths.

In order to enable the exchange of information the Storage Customer and SDS shall make use of the Contact Details, Annex D to the Storage Contract.

3. Communication

   3.1. General

The Parties are obliged to inform each other in case of changes to the agreed communication channel and/or of changes of communication details.
Any message of the Storage Customer sent to SDS will be confirmed by SDS via the same communication channel.
Independently of the used communication channel any messages exchanged and information related to the Storage Services are recorded in SDS' Storage Management System.

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Any messages exchanged are binding. In case of technical progress, e.g. a release update, new technical and/or software solutions, SDS reserves the right to change the authentication system and/or technical requirements with sufficient lead time.

3.2. Communication channels

The Parties shall agree upon and implement main and back-up communication channels. The agreed communication channels and the details shall be laid down in the Contact Details, Annex D to the Storage Contract.

Possible main communication channels are
   a) FTP/ISDN
   b) AS2 - via Internet
   c) Email
   d) Web Interface (currently not implement; only on request)

Possible back-up communication channels are
   a) Email
   b) Fax
   c) Telephone

SDS recommends the communication format Edig@s.

3.3. Communication Test

For exchange of information a proper communication set up and a successful communication test is required to ensure proper operations and authentication.
Such communication test shall ensure that SDS's communication requirements have been fulfilled and that the Storage Customer is capable of sending and receiving reports and messages related to the operational application of the Storage Contract.

The communication test shall be performed at least [*ten (10)*] working days prior the Start of the Storage Period as agreed in the Storage Contract.

SDS may request a repetition of the communication test at any time during the Term of the Storage Contract if it has reasonable grounds to challenge the Storage Customer's ability to fulfill the requirements mentioned under this Article 3.

If the Parties fail to pass the communication test they shall immediately take the necessary measures to eventually fulfill the communication requirements.

Until the communication test has been passed SDS has the right to reject the Nominations of the Storage Customer.

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3.4. Edig@s

For exchange of information via Edig@ a proper communication set up and a successful communication test is required to ensure proper operations and authentication.
The set up and the communication test shall be performed for the main Edig@s communication channel and – if applicable - for back-up Edig@s communication channels, and in case of any changes of these Edig@s communication channels.

4. Operational Procedure

4.1. Code Implementation

4.1.1. Codes provided by the Storage Customer

Before Start of the Storage Period the Storage Customer shall provide all codes and all information related to the requirements of utilisation of these codes which are necessary for proper performance, e.g. Shipper Codes, Edig@s codes or other communication codes (hereinafter referred to as "Codes").

The Storage Customer shall inform SDS without undue delay about any changes of Codes or Codes additionally required.

SDS will implement any Codes and any changes thereof within appropriate lead times. Due to the lead times of the TSOs regarding the implementation of new Shipper Codes SDS will only ensure an implementation of Shipper Codes in time if the Storage Customer provides SDS with its used Shipper Codes with a lead time of fifteen (15) days. If the TSOs will extend or shorten their lead times, SDS reserves the right to extend or shorten its lead time accordingly.

4.2. Nominations

4.2.1. Additional definitions

D   shall have the meaning of the Gas Day, starting at 06:00 am and ending at 06:00 am.
D -1   shall have the meaning of the gas day before D
D + 1   shall have the meaning of the gas day after D

4.2.2. Nomination Procedure

The Storage Customer shall ensure that Nominations do not exceed the capacities as of the agreed Storage Services.
Nominations may be submitted for a single Day or for a valid period of Days.
Valid Nominations for D shall be received before [*(two (2) full*] hours on D-1.

4.2.3. Renomination

The Storage Customer may revise its nominated hourly quantities of Natural Gas by means of sending a Renomination.
Renominations shall take effect, after the hour, in which SDS has received the Renomination, plus lead time [*minimum two (2) full hours*] as defined in the Storage Specification, at the earliest.

4.2.4. Content of Nominations

A Nomination shall contain (according to Edig@s template):

> (i) Type of Nomination (marked as "Injection" or "Withdrawal");
> (ii) Storage Customer's Name
> (iv) Delivery Point;
> (v) Daily Quantity in kWh/d as integer value;
> (vi) Hourly Quantity in kWh/h as integer value;
> (vii) Sending date and time;
> (viii) Start date;
> (ix) End date.

4.3. Confirmation

4.3.1. Matching and Confirmation by SDS

Nominations received by SDS at a delivery point shall for each and any hour be matched with the Nominations received by the Neighbouring Network Operator(s). If there are inconsistencies between the nominations received by SDS and the nominations received by the Neighbouring Network Operator(s) for a delivery point then the lower of the two corresponding nominations shall be confirmed in the transport network and in the storage facility (lesser-of-rule).

Confirmation of a Nomination:
SDS shall confirm the Nomination for D by [*18:00*] hours of D-1. If by this time the Storage Customer has not received a confirmation the Storage Customer shall immediately contact SDS by phone informing it of this situation.

Confirmations of a Renomination:
SDS shall confirm a Renomination latest [*three (3)*] hours after the end of the hour in which it has received the Renomination. If by this time the Storage Customer has not received a confirmation the Storage Customer shall immediately contact SDS by phone informing it of this situation.

4.3.2. Rejection of a Nomination or Renomination

SDS may completely or partially reject a Storage Customer's Nomination or Renomination under the following circumstances:

- in case of Force Majeure in accordance with Article 18 of the Terms and Conditions and / or
- in case the Storage Customer has exceeded the operational, technical limitations and / or the injection - and withdrawal curves, which are defined between the Storage Customer and SDS according to Art. 6 of the Storage Specification and /or
- in case the Storage Customer has exceeded the daily available capacities as provided in the daily forecast and/or
- in case of Maintenance or Interruptions according to Articles 12 and 19 of the Terms and Conditions and/or
- in case of nominations for the past.

4.4. Curtailment

Curtailment rules, e.g. rules for handling of interruptions of interruptible capacity, shall be agreed upon in the Storage Contract.

4.5. Allocation

In general the principle "allocated as nominated" applies. This means that confirmed nominations will be the basis for the allocation.

However, in case of significant deviations between measurements and confirmed nominations, the allocation of Natural Gas will be necessary.

The allocation of the Storage Customer's quantities of Natural Gas injected or withdrawn shall for each and every hour be based on the quantities of Natural Gas measured at the respective delivery point, the nominated quantities of Natural Gas matched by SDS and the Neighbouring Network Operator(s) and the allocation procedure for the respective delivery point which has been agreed upon between the Neighbouring Network Operator(s) and SDS.

The allocation of the Storage Customer's Natural Gas shall for each and every hour form the mutually agreed basis for determining the Storage Customer's Working Gas Account and billing for exceeding the contracted Storage Services.

SDS shall allocate allocation data received from the TSOs pro-rata in relation to the confirmed Nominations.

Capacities allocated to SDS may consist of capacities in the main flow and in counterflow. Counterflow capacities shall be allocated according to the confirmed Nominations.

4.6. Other Operational Rules and Handling

4.6.1. Rounding Rule

Article 3 of the Storage Specifications shall apply.

4.6.2. Distribution Rule

In case of inserting daily figures for Notification and Nomination the procedure for distribution into hourly figures will be applied in the following manner:

- Daily integer values, resulting from the rounding rule above, will be distributed into all hours of the respectively notified and nominated Day.
- The distribution rule for daily integer values into hourly integer values is based on the mathematical principle for "integer division" and the "modulo operation". The "modulo operation" add that the rest of integer division for the first 23 hourly figures in mathematical view onto the last hourly figure of the Day.
- In case of 23 and 25 hours day, the distribution rule will be adjusted to the numbers of hours for the 23 and 25 hours Day.

4.6.3. 23/25 Hours Day Handing

4.6.3.1. Change from Wintertime to Summertime

For the change from wintertime to summertime the Storage Customer shall inform SDS about the intended adjustment of notified values for Nominations at the day when changing from Central European Time to Central European Summer Time.

4.6.3.2. Change from Summertime to Wintertime

For the change from summertime to wintertime the Storage Customer shall inform SDS about the intended adjustment of notified values Nomination at the day when changing from Central European Summer Time to Central European Time.