

The Marketplace Company Limited

And

NZX Limited

And

Gas Industry Company Limited

DEED OF NOVATION

Deed dated: 4th day of June 2009

PARTIES:

THE MARKETPLACE COMPANY LIMITED a company incorporated under the Companies Act 1993 with its registered office at Wellington ("M-co")

NZX LIMITED a company incorporated under the Companies Act 1993 with its registered office at Wellington ("NZX")

GAS INDUSTRY COMPANY LIMITED a company incorporated under the Companies Act 1993 with its registered office at Wellington ("GIC")

BACKGROUND

1. M-co and GIC are parties to the Contracts, pursuant to which M-co performs the role of allocation agent under the Gas (Downstream Reconciliation) Rules 2008 and has developed and operates a gas trading system.
2. In the Agreement for Sale and Purchase, M-co agreed to sell its business including its interests under the Contracts, to NZX.
3. Under the Contracts, the consent of GIC is required to any assignment of M-co's interest in the Contracts.
4. The parties are entering into this Deed in order to assign and novate M-co's interests in the Contracts to NZX and to record GIC's consent to the assignment and novation of the Contracts to NZX.

OPERATIVE PART

This Deed records that the parties agree as follows:

1. Interpretation:

- 1.1 **Defined Terms:** In this Deed, the following words and phrases have the meanings shown opposite them below:

"**Agreement for Sale and Purchase**" means the Agreement for Sale and Purchase of the Assets and Business of The Marketplace Company Limited, between M-co and NZX and dated 29 April 2009;

"**Allocation Agent Agreement**" means the Allocation Agent Service Provider Agreement (undated) between M-co and GIC;

Handwritten signatures and initials in blue ink, including a large signature on the right and several initials at the bottom right.

"Closing Date" means the date of closing under the Agreement for Sale and Purchase;

"Confidentiality Obligations" means the obligations of the "Service Provider" under clause 17 of the Allocation Agent Agreement and clause 15 of the Gas Trading System Agreement;

"Contracts" means the Allocation Agent Agreement and the Gas Trading System Agreement; and

"Gas Trading System Agreement" means the Gas Trading System Agreement dated 18 February 2008 between M-co and GIC, as amended by a Variation Agreement dated 12 December 2008.

- 1.2 **Effect on Agreement for Sale and Purchase:** Nothing in this Deed affects the rights and obligations of M-co and NZX under the Agreement for Sale and Purchase, except to the extent that this Deed partly performs the obligations of M-co.
- 1.3 **Effective Time and Date:** This Deed has effect from 5:00pm on the Closing Date.
- 1.4 **Headings:** Headings are used in this Deed only as a visual aid, and do not affect the meaning of the clauses to which they relate.
- 1.5 **Governing Law:** This Deed is governed by New Zealand law.
2. **Assignment of Contracts by M-co:** M-co assigns all of its rights, title and interests in, and its obligations and liabilities under, the Contracts to NZX.
3. **Assumption of Contracts by NZX:** NZX accepts the assignment in clause 2, and agrees with M-co and GIC that as from 5:00pm on the Closing Date it shall fully perform all of the obligations, and assume all of the liabilities, of M-co under the Contracts in the same manner as if the Contracts had been executed by NZX rather than by M-co.
4. **Consent by GIC:** GIC consents to the assignment of the Contracts by M-co and to the assumption of M-co's obligations by NZX, but without prejudice to any rights it may now or in future have under the Contracts. mw
5. **No default:** GIC confirms that it is not aware of any event of default or breach of the Contracts by M-co, but without prejudice to any rights it has in respect of any breach or event of default which has occurred prior to the date of this Agreement.
6. **Novation of Contracts:** As a consequence of clauses 2 - 5, the parties agree that the Contracts will be novated so that as from 5:00pm on the Closing Date –
 - a. NZX will take the place of M-co under the Contracts, in the same manner as if NZX had originally been a party to the Contracts rather than M-co; and

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- b. All references in the Contracts to M-co shall be read and construed as if they were references to NZX rather than to M-co; and
 - c. The Contracts shall have effect as contracts between NZX and GIC accordingly;
 - d. Without prejudice to any liability M-co may have to NZX, NZX shall assume all liabilities of M-Co to GIC, howsoever arising, from or under the Contracts, existing as at 5:00pm on the Closing Date, and M-co shall, accordingly, be released from such liabilities;
 - e. Without prejudice to any liability M-co may have to NZX, all liabilities of GIC to M-co, howsoever arising, from or under the Contracts, existing as at 5:00pm on the Closing Date, shall become liabilities to NZX, and GIC shall, accordingly, no longer be liable to M-co in respect of such liabilities.
7. **Confidentiality:** Notwithstanding any other clause of this Deed, M-Co shall continue to be bound by the Confidentiality Obligations so that, with effect from 5:00pm on the Closing Date, both M-co and NZX shall be bound by the Confidentiality Obligations.
8. **Intellectual Property Rights:** M-co and NZX warrant and represent to GIC that NZX has acquired such intellectual property rights from M-co as are necessary to enable NZX to perform its obligations under the Contracts.
9. **Notices:** The notice details for the "Service Provider" in clause 23.10.3 of the Allocation Agent Agreement and clause 21.9.2 of the Gas Trading System Agreement shall be amended to read as follows:

Contact Name: Shane Dinnan
General Manager, Operations

Fax Number: 04 496 2893

Physical Address: Level 2, NZX Centre, 11 Cable Street, Wellington

Email Address: shane.dinnan@m-co.co.nz

mw

10. **Functional Specification:** For the avoidance of doubt, the parties acknowledge that the "Functional Specifications" attached to the Allocation Agent Agreement as schedule 9 have been amended, and that the Allocation Agent Agreement should be read as if schedule 9 contained Functional Specifications in the form attached as the schedule to this Deed.
11. **Counterparts:** This Deed may be executed in two or more counterparts (including facsimile copies) each of which will be deemed an original, but which together will

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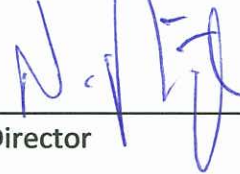
constitute one and the same instrument. A party may enter into this Deed by signing any counterpart.

In witness of which this Deed has been executed on the date first shown above.

**Executed by THE MARKETPLACE
COMPANY LIMITED** by two directors:



Director



Director

Executed by NZX LIMITED
by two directors:



Director



Director

**Executed by GAS INDUSTRY
COMPANY LIMITED** by:



Chief Executive

SCHEDULE

**Allocation Agency Agreement
Functional Specification**

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act *ess*
up *5* *act*

Gas Industry Company Limited
Allocation Agent
Functional Specification

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Revision History

Version	Release Date	Author	Description
0.1	15 th July 2008	Maria Sydor, Craftware Computing Limited	Initial Draft
0.2	21 st July 2008	Maria Sydor	<p>Corrections made to:</p> <ul style="list-style-type: none"> • interpretation of rule 39 (GAS020), • remove references to invoicing, • include Gas Registry interface for Gas Gate reference data, • add that parent distributor is responsible for providing injection volumes for attached embedded networks, • the calculation of AUF to include embedded network consumption, • the outputs to TSOs to include embedded network consumption within the parent gas gate's allocation quantities, • TSO interfaces to include translation tables for gas gates and allocation participants, • Estimation algorithm included. <p>Comments from M-co.</p>
0.3	31 st July 2008	Maria Sydor	<p>Comments from users:</p> <ul style="list-style-type: none"> • Removal of embedded network processing • Removal of allocation group in retailer trader information and update of retailer permissions • Removal of agents. Sender in header optional and not validated by system. • GAU090 seasonality factor added to daily average calculation • GAR040, 50 and 30 removed allocation group and profile. Added contract ID to GAR010 • GAR080 time lag included for annual consumption • GAR100 changed • Removed allocation group from aggregation level in GAR110 • Rationalisation of decimal format for outputs to numeric 10.3 – consistent with OATIS • Removal of invoicing • Additional clarification/formatting/standardisation of terminology • Removal of consumption period in headers in all examples

			<ul style="list-style-type: none"> • Addition of exception processes at various stages when submissions are missing for allocation groups 3 to 6. • Clarification added to the Contract Matching algorithm making it clear that the system will not pick up Contract IDs from other retailers.
0.4	7 th August 2008	Phillip Beardmore	<ul style="list-style-type: none"> • Incorporation of further comments from M-co and industry stakeholders • Inclusion of exception process for contract ID matching algorithm • Inclusion of period during a month when OATIS is not to be updated • Clarification that retailers submit their historic estimate reports via GAS040, GAS050 and GAS060 • GAU020 clarified to state that seasonality factor is to be applied to all allocation groups • Clarification of when distributors receive information approved for release by retailers • Editorial review.
0.5	8 th August 2008	Phillip Beardmore	<ul style="list-style-type: none"> • Clarification that retailers submit consumption information at <i>either</i> the gas gate level or the <i>notional delivery point</i> level • Clarification that TSOs receive initial, interim and final allocation information • Updating rule references • Editorial review.
0.6	18 th August 2008	Maria Sydor and Phillip Beardmore	<ul style="list-style-type: none"> • Allowance made for direct consumers where consumption information may or may not be submitted and for unmetered gas gates where injection information will not be provided • Provision made to prevent information being published on the public website of information relating to gas gates that have been given an exemption by Gas Industry Co • Include an additional attribute of metering type against a gas gate - to be able to accommodate unmetered gas gates • Corrections to GAR110 relating to the treatment of estimates in relation to the quantity of historical estimates.
0.7	19 th August 2008	Phillip Beardmore	<ul style="list-style-type: none"> • Reinsertion of 'Allocation Group' field in the GAR010, GAR020, GAR030 reports.
1.0	20 th August 2008	Phillip Beardmore	<ul style="list-style-type: none"> • Contractual baseline.

2.0	31 st October 2008	Phillip Beardmore	<ul style="list-style-type: none"> • Various clarifications following system testing and user acceptance testing.
2.1	31 st May 2009	Phillip Beardmore and Maria Sydor	<ul style="list-style-type: none"> • Incorporation of change requests 2, 4, 5 and 6.

Glossary

The terms used in this document have the same definitions as the matching terms in the Gas (Downstream Reconciliation) Rules 2008.

Specific OATIS terminology is explained within the specific processes GAS030 and GAR130.

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1. Executive summary

This functional specification details the requirements of the system to be developed and operated by the service provider – the allocation agent – for the downstream reconciliation and allocation of gas.

This document has been developed using the following sources:

- Gas (Downstream Reconciliation) Rules 2008,
- Gas Governance (Compliance) Regulations 2008,
- RFP – Appointment of an allocation agent for the provision of services for downstream reconciliation and allocation of gas,
- The allocation agent service provider agreement,
- Information exchange file formats notice v1.2 issued 3 November 2008,
- File formats working party, industry experts, Gas Industry Company Limited project team and Phillip Beardmore of Strata Energy.

If there is any conflict between this document and the Gas (Downstream Reconciliation) Rules 2008, or any notice or decision made under those Rules, the Gas (Downstream Reconciliation) Rules 2008 (or the notice or decision) shall take precedence and prevail.

2. Background

The purpose of the downstream reconciliation and allocation system is to take submission information supplied by the allocation participants and use it to determine unaccounted for gas (UFG), then allocate that to the allocation participants and provide reports to all interested parties.

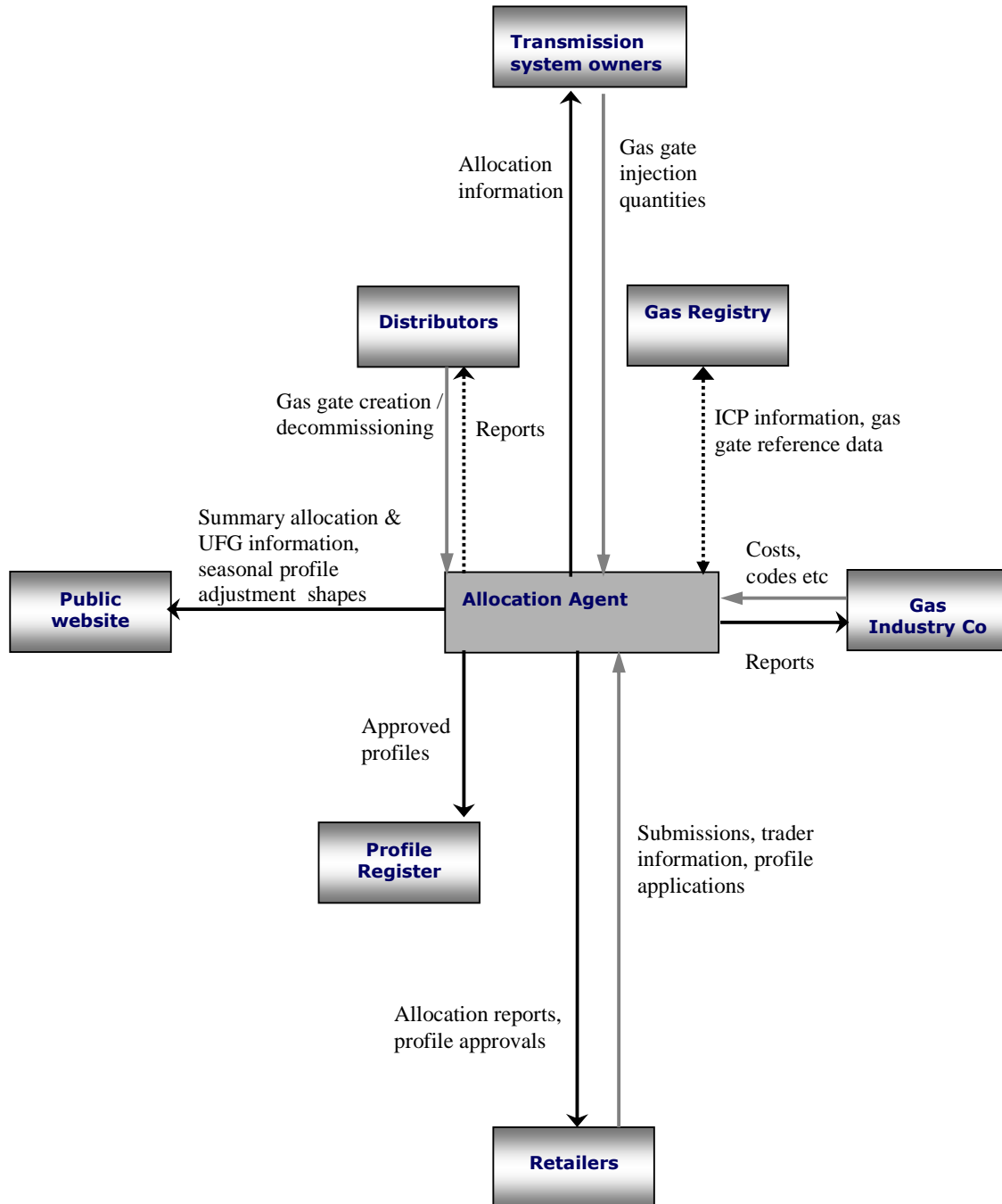
The system must enable the allocation agent to perform the responsibilities defined in the Gas (Downstream Reconciliation) Rules 2008 (the Rules), which include:

- calculating the annual UFG factor for the next gas year;
- checking that the required submission information is complete and accurate;
- estimating for missing submissions;

- determining the UFG at each gas gate and allocating this to retailers by:
 - applying the annual UFG factor,
 - calculating and applying the monthly UFG factor,
 - determining the gas gate residual profile, and
 - profiling monthly submissions into daily quantities using the gas gate residual profile and applying the monthly UFG factor to them;
- producing allocation and compliance reports to allocation participants and the industry body – Gas Industry Company Limited; and
- approving profiles and maintaining a register of approved profiles.

All invoicing functions required to be performed by the allocation agent are deemed to be external to the system described in this document.

3. The allocation agent's system overview



4. Participants of the system

4.1 Allocation participants

The Rules define allocation participants as retailers, distributors, meter owners or transmission system owners. This specification only deals with retailers, distributors and transmission system owners; meter owners do not have any obligations to provide or receive information in respect of the allocation process.

Retailers are required to provide submission information to the allocation agent and receive allocation information and other reports from the system.

Transmission system owners (TSOs) own the transmission system supplying gas to consumer installations via gas gates. TSOs provide injection volume information to the allocation agent and receive allocation information from the allocation agent.

Any new TSO will be expected to provide information in the formats currently defined for OATIS.

Distributors provide information pertaining to the creation and decommissioning of gas gates.

Distributors are also able to receive allocation information relating to their own distribution systems but only for those retailers who have consented to the allocation agent releasing their information to specific distributors.

4.2 Industry body

The industry body is the Gas Industry Company Limited (Gas Industry Co), which approves new allocation participants and codes for use in the allocation system. The allocation agent is required to provide Gas Industry Co with compliance reports.

4.3 Gas registry

It is intended that the allocation system will interface with the Gas Registry so as to provide gas gate reference information. Some of the interfacing details are included in this document but not all.

With respect to Installation Control Point (ICP) information, during the transition period it will be provided to the allocation agent by distributors when requested.

5. Submission information

Submission information is provided in 3 separate formats. The specific format is dependant on the allocation group.

5.1 Allocation groups

There are 6 allocation groups, which are defined in the Rules as follows:

Allocation Group	Definition	Submissions aggregated
1	Assigned to ICPs that have a TOU meter with telemetry and where actual gas quantities are recorded daily.	Per ICP per day
2	Assigned to ICPs that have a TOU meter without telemetry and where actual gas quantities are recorded daily.	Per ICP per day
3	Assigned to ICPs where the daily gas quantities are determined by application of an approved static deemed profile (by the retailer) to monthly gas quantities taken from register readings that are required under rule 29 to be recorded monthly.	Per ICP per day
4	Assigned to ICPs where the daily gas quantities are determined by application of the gas gate residual profile (by the allocation system) to monthly gas quantities taken from register readings that are required under rule 29 to be recorded monthly.	Monthly
5	Assigned to ICPs where the daily gas quantities are determined by application of an approved dynamic deemed profile (by the retailer) to monthly gas quantities taken from register readings that are not required under rule 29 to be recorded	Daily

Allocation Group	Definition	Submissions aggregated
	monthly.	
6	Assigned to ICPs and where the daily gas quantities are determined by application of the gas gate residual profile (by the allocation system) to monthly gas quantities taken from register readings that are not required under rule 29 to be recorded monthly.	Monthly

5.2 Profile code

A profile code of 4 characters is provided in submissions to indicate which approved profile was used to profile the consumption information or that there was no profile (XTOU), or that the system is required to profile using the gas gate residual profile.

Profiling is a process whereby a single quantity for a period such as a month is divided into days in a manner that maintains a pre-defined pattern (profile) of quantities over time. The pattern is defined either as a static deemed profile, a dynamic deemed profile or calculated from the gas gate residual profile. The allocation agent is required to calculate the gas gate residual profile and apply it to submissions of allocation groups 4 and 6 only.

Retailers themselves will provide already 'profiled' submissions for allocation groups 3 and 5. For allocation groups 1 and 2 there are no profiles and these submissions will have the profile code of "XTOU".

5.3 Profile type

There are four types of profiles:

- static deemed profiles,
- dynamic deemed profiles,
- gas gate residual profiles, and
- none i.e. time of use meters.

The profile type can be determined from the first character of the profile code:

- S – means it is a static deemed profile,
- D – means it is a dynamic deemed profile,
- G – i.e. “GGRP” means a gas gate residual profile (which will not actually appear in the file), and
- X – i.e. “XTOU” means no profile. A time of use meter was used.

It should be noted that static deemed profiles and dynamic deemed profiles must be approved and registered by the allocation agent in accordance with the Rules before they can be applied in the allocation process.

5.4 Gas gates

This is a code (8 characters) that identifies:

- a point of connection between the transmission system and a distribution system (gas gate connected network); or
- a point of connection (including a point of connection between the transmission system and a distribution system that represents a group of gas gates (*notional delivery point*)); or
- a point of connection between two distribution systems (including a point of connection between a distribution system and an embedded network distribution system (*EN gas gate*)); or
- a point of connection between the transmission system and a consumer installation (direct consumer gas gate).

Notional Delivery Point

Under the Rules, groups of gas gates (*notional delivery point*) can be determined by Gas Industry Co to be treated as a single gas gate for the purpose of the allocation process. Submissions by retailers at these gas gates may be aggregated and submitted at the *notional delivery point* – or at the individual gas gates that make up the *notional delivery point*. The allocation agent’s system will aggregate any submissions provided at the individual gas gates of *notional delivery points*. Allocation results will only be provided at the *notional delivery point*.

With respect to injection volumes, TSOs will provide quantities at the individual gas gates and/or at the *notional delivery point* and the system will aggregate to the *notional delivery point* level.

Interconnection points

For both **embedded network** connection points¹ (EN gas gates) and **other interconnection points**, the two distribution systems will be merged under a single *notional delivery point*. In consultation with Gas Industry Co this *notional delivery point* will be assigned to only one network code even though the individual gas gates may have different network codes. Submissions for consumer installations in **embedded networks** will be made at the EN gas gate.

N.B. There is no embedded generation involved in the allocation process.

Direct consumer gas gates

Direct consumer gas gates generally have only one consumer at the gas gate. Injection volumes are provided by the responsible TSO, however there may or may not be consumption information submitted by the retailer(s) at this gas gate. If no consumption information is submitted by the retailer(s), the allocation process uses the total injection quantity as the retailer consumption information submission(s). Whether or not consumption information is to be provided by the retailer(s) is notified to the allocation agent in the trader notification(s) together with the appropriate allocation group (to be used for reporting purposes).

Gas gate metering

Gas gates can be metered or unmetered. Where a gas gate is unmetered, no injection quantities will be submitted to the allocation agent by TSOs². Only consumption information submissions will be submitted, by retailers. The allocation process uses the total consumption quantity (i.e. the sum of all retailers' consumption information submissions) as the injection quantity for allocation purposes.

5.5 Network code

This is the code (4 characters) of the distributor for the distribution system connecting consumer installations with the gas gate. There is only one network code for each gas gate.

¹ Representing the connection between a parent distribution system and an embedded network.

² See *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-14-T: Unmetered Gas Gates) Notice 2008*.

Where there is a connection between a distribution system and an embedded network (EN), there will be a metered interconnection point (EN gas gate). An EN gas gate is to be included within a *notional delivery point*. Even though the parent distribution system gas gate and the embedded network gas gate may have different network codes, this *notional delivery point* will be assigned to only one network code – the parent distribution system network code.

The volume (injection quantities) for this notional delivery point will be the injection quantities for the parent distribution system gas gate provided by the TSO of the parent distribution system.

For direct consumer gas gates the network code is the TSO code.

5.6 Contract identifier

The contract identifier (contract ID) is assigned by TSOs to their gas transmission contracts with retailers. Although currently a length of 4 characters is used for contract IDs, the contract ID in the allocation system will have a maximum length of 8 characters for allow for future expansion.

The interface (via OATIS) requires that the allocation information provided by the allocation system includes a contract ID. The allocation system will assign a contract ID from the contract information provided to the allocation agent as part of the trader information provision (in GAS020).

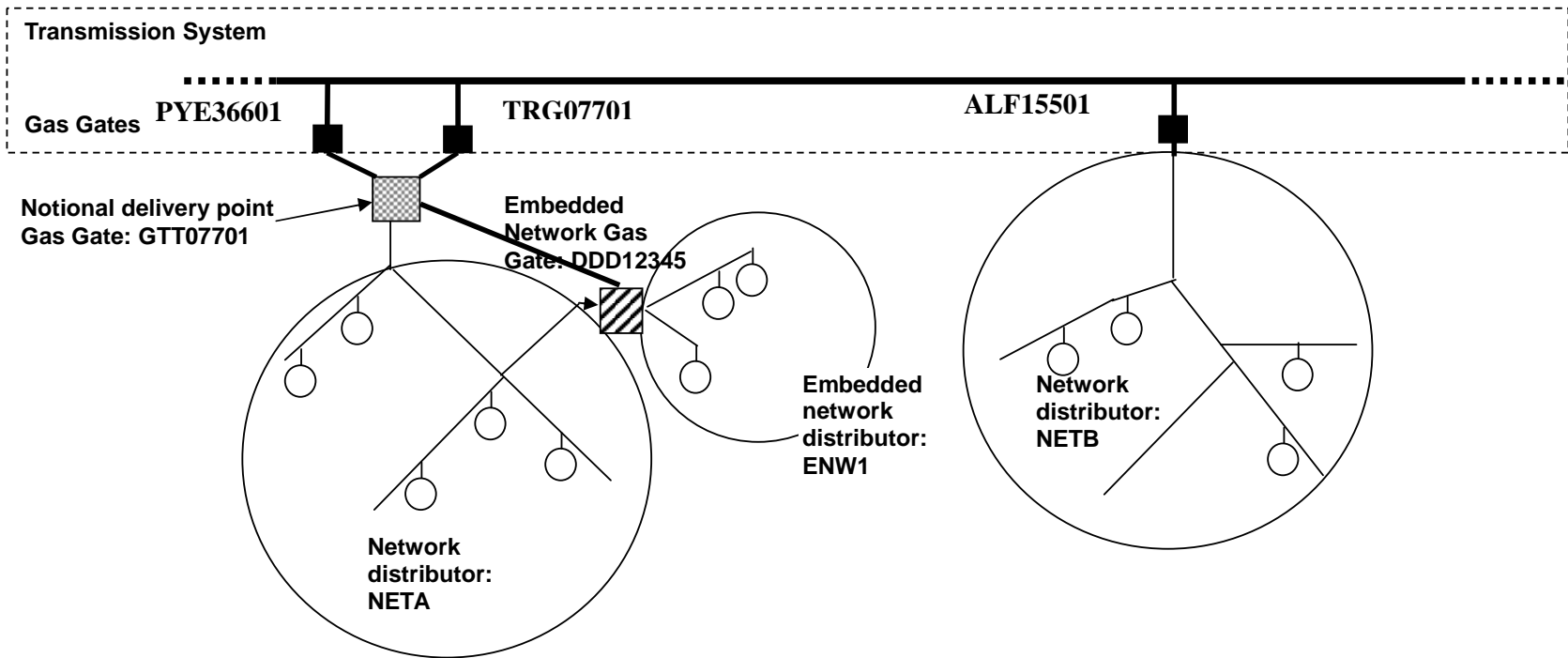
6. The allocation process

The allocation process involves:

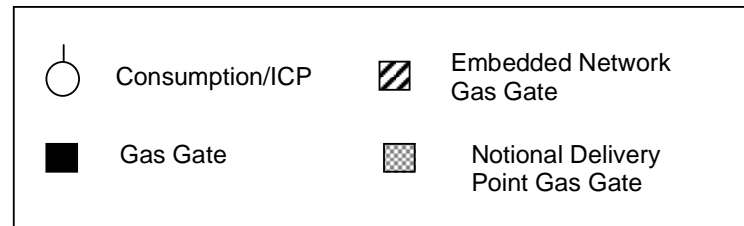
1. The calculation of an annual UFG factor for every gas gate. This is applied to all consumption information of allocation groups 1 and 2 during the applicable gas year.
2. The calculation of a monthly UFG factor for every gas gate. This is applied to all consumption information of the remaining allocation groups 3, 4, 5 and 6.

The gas gates referred to above are the *notional delivery point* gas gates and the single gas gates that are not amalgamated into *notional delivery points*.

All reporting of allocated quantities is provided at the gas gate where allocation takes place.



Gas Network (Downstream)



7. Data transfer requirements

7.1 Calendar view of monthly allocation process

The following table outlines the prescribed timelines which must be managed and adhered to by allocation participants and the allocation agent.³

Business Day of Processing Month	Description	Notes
1	<p>By 0800: Each retailer provides Gas Industry Co a report on proportion of historic estimates (rule 40.1) for previous month's allocations.</p> <p>By 1200: Allocation agent publishes seasonal adjustment daily shape values (rule 53.1) on the website.</p>	<p>Each retailer now provides this historic estimate information to the allocation agent within their submissions (GAS040, GAS050, GAS060). Then the allocation agent provides the GAR110 report to Gas Industry Co.</p> <p>GAR060</p>
3	<p>Retailers notify allocation agent of any changes to retailer trading information – commencement and cessation of trade at a gas gate and changes to gas transmission contract information (rule 39)</p> <p>Allocation agent should forward the above notification to the relevant TSO.</p>	GAS020
4	<p>By 1200: Retailers provide initial allocation information to allocation agent (rule 31)</p> <p>By 1200: TSOs provide daily injection quantities for previous month (rule 41)</p>	<p>GAS040, GAS050 and GAS060</p> <p>GAS030</p>
5	By 1200: Allocation agent performs initial allocation, publishes applicable	GAU010 to GAU080, GAR010 to GAR040,

³ Note that the prescribed timelines set out in this table incorporate any amended timelines as the result of current exemptions - for further information refer to the relevant sub-processes stated in the "Notes" column.

Business Day of Processing Month	Description	Notes
	<p>monthly UFG factors and provides reports (rules 48.2, 53.2 and 46.4.1)</p> <p>By 1200: Allocation agent provides to retailers and Gas Industry Co a report on the accuracy of consumption information between initial and final allocation (rule 53.3)</p> <p>From 1200: Allocation agent is not to input any information into OATIS until 0800 on the later of the 11th business day and the 15th calendar day of the processing month</p>	<p>GAR070 and GAR130.</p> <p>GAR050</p> <p>GAR130</p>
6	By 1730: Allocation agent can amend initial allocation up to this time (rule 44.3)	Note restriction on when data may be input into OATIS
9	By 0800: Retailers provide interim allocation information to allocation agent (rule 32)	GAS040, GAS050 and GAS060
10	By 1200: Retailers provide allocation agent with Meter Reading Frequency report (rule 40.2 but report being provided monthly rather than annually)	GAS080
11	By 0800: Allocation agent performs interim allocation, publishes applicable monthly UFG factors and provides reports (rules 49.2, 53.2 and 46.4.1)	GAU010 to GAU080, GAR010 to GAR040 and GAR070.
11	By 0800: Retailers provide "as-billed" information by gas gate (rule 52.2.1).	GAS070
12	By 1730: Allocation agent can amend interim allocation up to this time (rule 44.3).	Note restriction on when data may be input into OATIS
14	<p>By 0800: Retailers provide final allocation information to allocation agent (rule 33).</p> <p>By 0800: Allocation agent publishes comparison of retailer "billing" information and consumption information (rule 52.2.3).</p>	<p>GAS040, GAS050 and GAS060</p> <p>GAR080</p>
16	By 0800: Allocation agent performs final allocation, publishes the applicable monthly UFG factors and provides reports to retailers (rules 50.2, 53.2 and 46.4.1).	GAU010 to GAU080, GAR010 to GAR040 and GAR070.

Business Day of Processing Month	Description	Notes
17	By 1730: Allocation agent can amend final allocations up to this time (rule 44.3).	Note restriction on when data may be input into OATIS
Last	Allocation agent provides Gas Industry Co with a Meter Reading Frequency report. Allocation agent prepares self review (rules 12 and 13).	GAR100

7.2 File naming convention

In submitting information to the allocation agent in accordance with the proposed file formats, the following file naming convention is to be used, unless otherwise specified by Gas Industry Co:

sender + utility type + recipient + file type + month (or last month) to which report/consumption applies + report run date + uniqueID# (e.g. hmmmss run time, or ICP, but limited to Char(60))

with an extension of .TXT and with the components concatenated using the underscore character, to assist readability:

e.g. SENA_G_ALLA_GAS040_200810_20081105_123456.TXT

[Char4_Char1_Char4_ Char6_yyyymm_yyyymmdd_uniqueID.TXT]

The 'file type' portion of the file name (e.g. GAS040) is defined as part of the file header definition in the proposed file formats.

The first record of a file contains header information followed by zero or more detail lines, as detailed in the attached file formats.

7.3 File headers

There is a standard file header defined in the file formats document for both inputs and outputs, except for interfaces to and from OATIS: i.e. GAS030, GAR130 and GAR150.

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	Process map name of report e.g. "GAR110".

Description	Type	M/O	Calculations
Sender	Char (4)	M/O	"ALLA" if being sent by allocation agent otherwise optional. Not validated by system.
Allocation Participant	Char (4)	M	Participant code of retailer to whom the information relates. If more than one allocation participants' data exists in the file (<u>in outputs only</u>) then use a general code of "APAR".
Recipient	Char (4)	M	"ALLA" if being sent to allocation agent or the code of the allocation participant to whom the information is being sent e.g. retailer, distributor or TSO or "GICX" if to Gas Industry Co or "GASW" if published on the website.
Report Run Date	DD/MM/YYYY	M	Date the report is created.
Report Run Time	HH:MM:SS	M	Time the report is created.
Number of Records	Num (6)	M	Total number of detail records in report.

7.4 System interfaces

The allocation agent is required to provide the following types of interfaces:

1. A secure browser-based interface that allows participants to upload submission information into the allocation system and to download reports (i.e. online interface);
2. A secure file transfer facility that will allow participants to automate their data submission and report downloading processes (anticipated future requirement);
3. A secure interface with the Gas Registry (future requirement);
4. Public website that will allow for the publication of information to the general public.

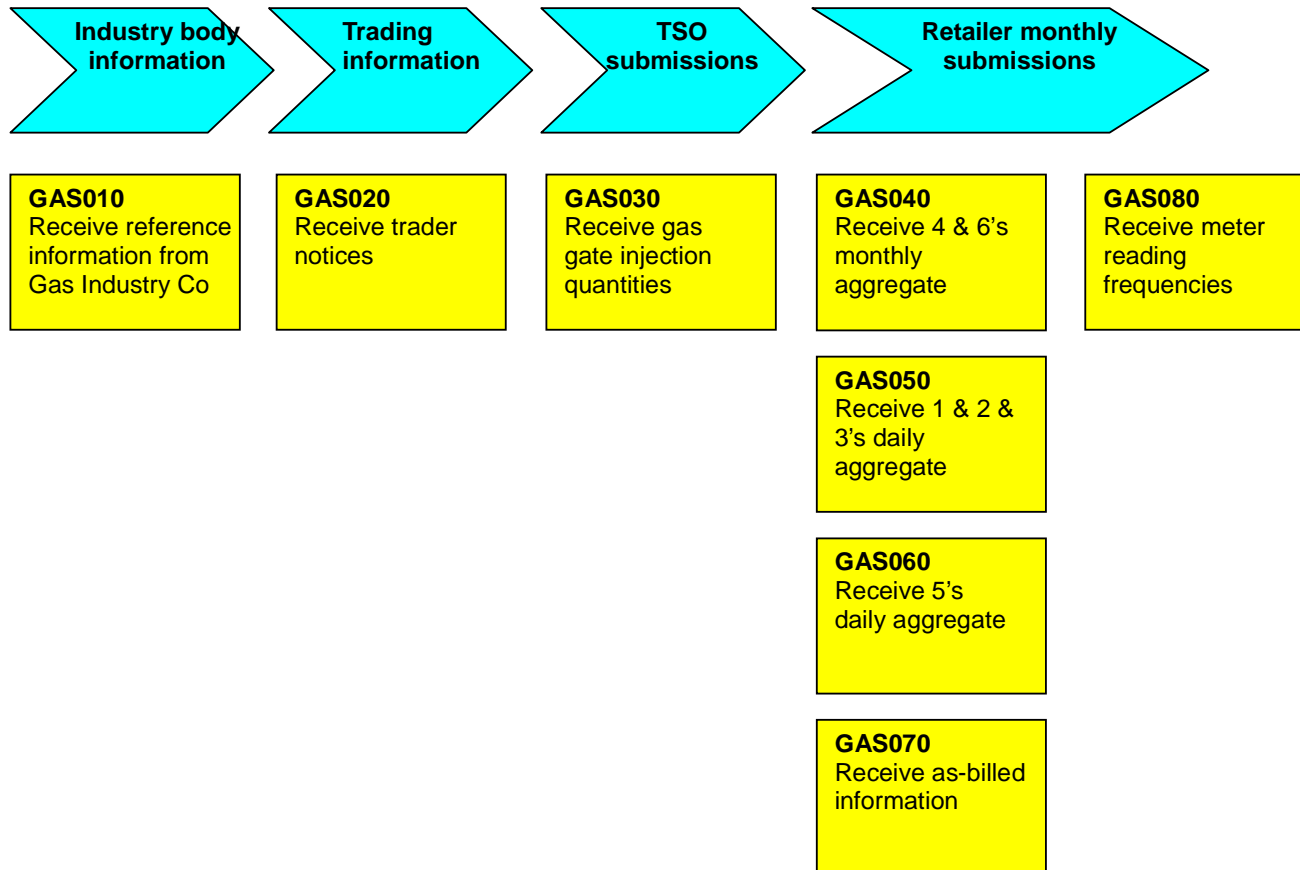
7.5 Rounding of numbers

Where numeric values contained in GAR outputs are used by the allocation system in subsequent processes (i.e. the allocated GJ in GAR010; the gas gate residual profile in GAR040; the AUFG and MUFG factors in GAR070), the system shall use the level of accuracy contained in the reports as the level of accuracy inputted into the subsequent process or processes (i.e. the aggregated GAR020 and GAR030 quantities will sum the 3 decimal place inputs from GAR010; the AUFG factor used

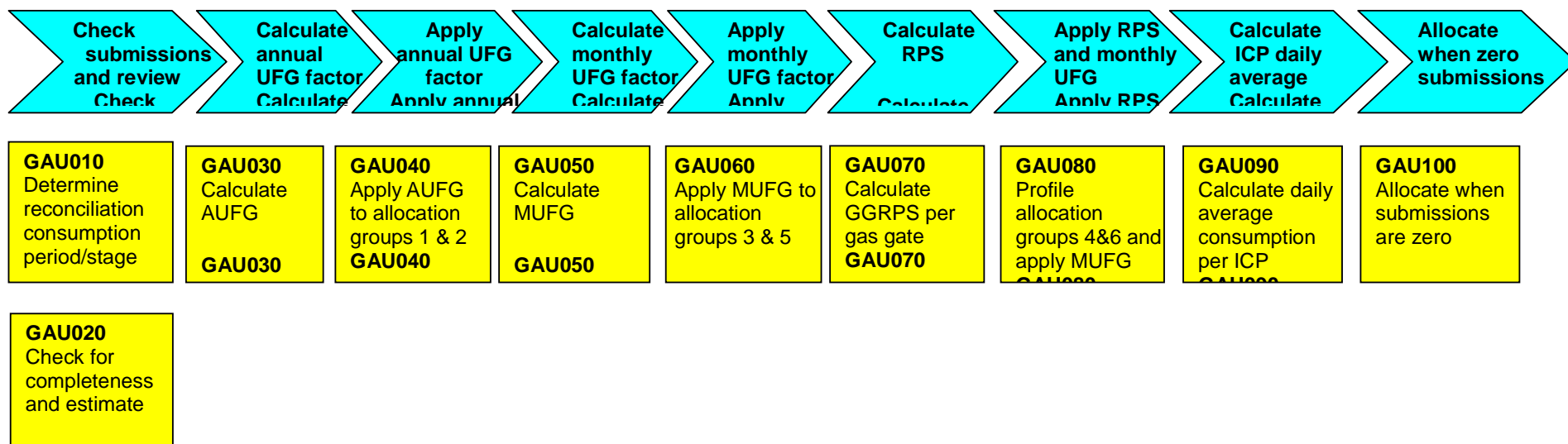
in GAU040 will be 4 decimal places; the MUFG factor used in GAU060 will be 6 decimal places; the gas gate residual profile used in GAU080 will be 3 decimal places). In all other instances, the system shall use the number of decimal places contained in its specification.

8. Reconciliation process maps

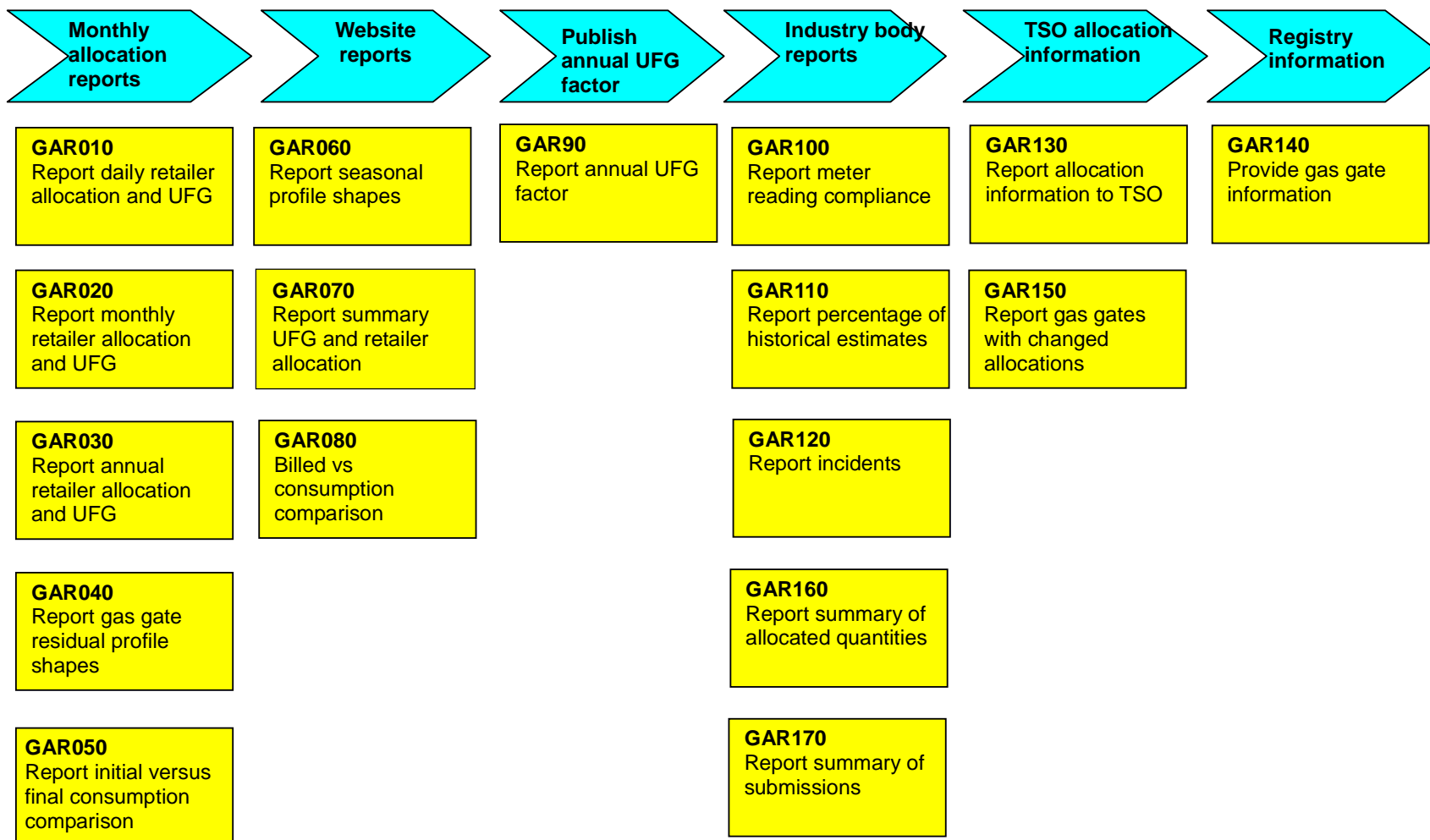
Process map – Accept and validate submissions



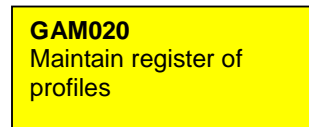
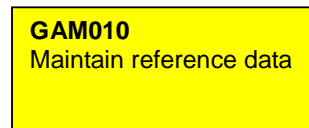
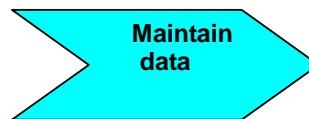
Process map – Allocate UFG



Process map – Generate reports



Process map - Maintain data



9. Sub-processes

Sub-process:	GAS010 Receive reference information from Gas Industry Co
Process:	Accept and validate submissions
Source:	Gas Industry Co
Rule references:	37, 79.3
Dependencies:	GAM010
<hr/>	
Description:	
Gas Industry Co approves codes for use in the allocation process, which are then provided to the allocation agent.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept and store the following valid codes approved by Gas Industry Co: <ul style="list-style-type: none"> • allocation participants (with roles of retailer, distributor and TSO), • file formats, • non-business days, • gas years with their start date and end date, • valid gas gate codes together with their gas gate type, network code, TSO code, parent gas gate of embedded networks, metering type (unmetered or metered) and whether publication on the public website has been exempted. • the grouping of gas gates into valid <i>notional delivery points</i>, • the 4 month and 12 month meter reading frequency percentage thresholds, • the cap and floor values for the annual UFG factors of each gas gate to be applied during the transitional period. 2. The allocation agent must use the latest approved codes and formats for the relevant time periods. 	
Data inputs:	
<p>One or more of the following codes with a description and effective start and end dates:</p> <ul style="list-style-type: none"> • retailers – 4 characters • distributors – 4 characters • TSOs – 4 characters • non-business days per year • gas gates 	

- gas years
- the grouping of gas gates into valid *notional delivery points* – the *notional delivery point* is in the same format as the gas gate code
- 4 month and 12 month meter reading frequency percentage thresholds
- the cap and floor values for the annual UFG factors to be applied during the transitional period – Num(2.3). The floor to be initialised at 0.985 and the cap at 1.035.

Processing:

The allocation agent:

- validates and stores the codes in the reference data tables;
- creates a full audit trail entry.

Data outputs:

Updated reference tables and audit trail entry.

Exceptions:

Sub-process:	GAS020 Receive allocation participant notifications
Process:	Accept and validate submissions
Source:	Retailers, distributors and TSOs
Rule references:	39
Dependencies:	GAR140, GAM010
<hr/>	
Description:	
<p>This information must be supplied to the allocation agent no later than the final business day of the month in which the changes apply.⁴</p> <p>For maintenance of gas gate information see GAR140 for further details.</p> <p>Retailer trader information</p> <p><u>Retailer/Gas Gate</u></p> <p>Retailers must give notice to the allocation agent when they commence to supply gas to a consumer installation at a gas gate at which they have not previously supplied gas or cease to supply gas at a gas gate. Where a retailer commences supply at a gas gate, that retailer must advise the allocation agent as to whether the consumption information will be submitted at the individual gas gate level or at the <i>notional delivery point</i> level. The retailer must supply its as-billed information (refer GAS070) at the same level as its consumption information (i.e. if a retailer provides its consumption information submissions at the <i>notional delivery point</i> level, then that retailer is to provide its as-billed information at the <i>notional delivery point</i> level). This retailer information is to be used by the allocation agent to validate retailer submissions and to estimate missing submissions.</p> <p>Where a retailer is a supplier at a direct consumer gas gate, that retailer must give notice to the allocation agent as to whether or not that retailer will be submitting consumption information. Where consumption information is not being submitted, the retailer must provide the allocation agent with an allocation group of 1 or 2 to be used against any estimated consumption calculated by the allocation agent, for reporting purposes.</p> <p><u>Gas Transmission Contract Information</u></p> <p>In order for the allocation agent to accurately assign, for the TSO, gas transmission contract IDs to specific submission quantities, retailers are required to provide the contract ID of their relevant transmission service agreement (TSA) and the commencement and expiry dates. There must be one or more contract IDs for every retailer, which cover all gas gates at which that retailer is supplying gas and which cover every consumption day in the consumption period. Contract IDs can commence mid-month for new retailers and expire mid-month when retailers cease to supply gas at a gas gate. Otherwise changes to contract IDs (for administrative purposes) should have a commencement date of the first calendar day of the month (i.e. consumption period) only and a cessation date of the last calendar day of the</p>	

⁴ Note, that until 30 September 2010, such information is required to be provided by 1200 hours on the 3rd business day of the month following the consumption period in which the changes occurred – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR09-04-S: Gas Gate Trading Notification) Notice 2009*.

month only.

Where retailers have supplementary gas transmission contracts (supplementary agreements) or non-VTC⁵ TSA gas transmission contracts (non-VTC TSAs), they must also provide and notify (and keep up to date) the following information for each such contract:

- contract ID with the commencement and expiry dates; and either
- a list of ICPs for which the contract ID applies; or
- a list of gas gates (including *notional delivery points*) for which the contract ID applies. Currently, supplementary agreements and non-VTC TSAs have only one 'delivery point' (i.e. gas gate) per gas transmission contract. However, there can be multiple gas transmission contracts for a specific gas gate for one retailer.

Retailers are required to be aware that information for non-VTC TSA contract IDs and supplementary agreement contract IDs must be updated to exclude/include ICPs switched to/from other retailers since the last notification.

The allocation agent is to check a retailer's contract IDs against the trader information provided to the allocation agent by TSOs.

In effect, there will be a maximum of 3 levels of contract ID information held per retailer:

Level 1 – Default contract ID (VTC compliant TSA)⁶;

Level 2 – Gas gate contracts (supplementary agreements and non-VTC TSAs);

Level 3 – ICP contracts (supplementary agreements and non-VTC TSAs).

Contract ID Matching Algorithm of Submissions

Contract ID matching of a retailer's submission for a gas gate will commence at the lowest level of contract ID (level 3) and work up to the default contract ID (level 1).

For each submission, the allocation system will attempt to find a matching retailer contract ID (level 3) first by using the submission's retailer code and ICP number (if exists in the submission), then if no match is found the system will search the level 2 contract IDs by using the retailer code and gas gate of the submission. If neither of these finds a matching contract ID then the system will use the retailer's VTC compliant TSA contract ID (for the applicable dates). Only contract IDs relating to the retailer of the submission will be assigned to a retailer's submission.

If a submission is assigned a contract ID that is later rejected by OATIS this will be mainly because the retailer has not notified the allocation agent of all of the retailer's contract IDs or not specified the correct gas gate or ICPs against a contract ID.

Retailer participant code / Shipper ID

Retailers are also required to provide any translations between their retailer allocation participant codes and their Shipper IDs, if they are different. This translation table will also be the mechanism used to amalgamate a retailer's allocation information into single codes required by the TSO for billing purposes.

Retailer allocation information access to distributors

Each retailer has the right to permit distributors to receive that retailer's allocation reports – GAR010, GAR020, GAR030, GAR040 and GAR050. Each retailer will provide the allocation agent with permission for distributors to receive these reports. Permission to be per

⁵ Vector Transmission Code

⁶ This acts as a 'catch-all' for retailer consumption that is not assigned to a valid supplementary agreement or non-VTC TSA.

distributor. The default will be no access.

Transmission system owner trader information

TSOs are required to provide the allocation agent with details of the gas gates for which they will be providing injection information and for which they will be requiring allocation information. N.B. The allocation agent will calculate the injection quantities of unmetered gas gates by using the total consumption submitted by the retailers at these gas gates.

With each gas gate, TSOs will be required to provide: the network owner of each gas gate and any translation information the system needs to convert gas gates to Welded Point IDs, if they are different. This translation will be used by the allocation system not just for translating codes but also for aggregating allocation information of multiple gas gates into one Welded Point ID.

In addition, the TSOs are required to provide, and keep up to date, a list of valid contract IDs and their associated retailer codes and contract names with commencement and termination dates (for the allocation agent to use for cross-checking purposes with retailers' contract ID trader information).

Distributor trader information

Distributors are required to notify the allocation agent when gas gates (including interconnection gas gates) are established or decommissioned, together with the gas gate code. When an embedded network is established or decommissioned, distributors are also required to identify the associated *notional delivery point*.

Business requirements:

1. The allocation agent must accept and store:
 - the effective dates (start and end) when retailers, TSOs and distributors commence and cease operation at gas gates;
 - TSO translation information;
 - the contract ID and effective dates of each retailer's default standard TSA contract;
 - the contract ID and effective dates of each retailer's supplementary contracts together with details of either the associated ICPs or gas gates.

Data inputs:

Trader information for each retailer. Per retailer, details of:

- gas gate,
- effective start and end dates.

Contract details for each retailer. Per retailer, details of:

- contract ID,
- TSO,
- contract type (default contract (TSA), non-VTC TSA or supplementary),
- ICP numbers or gas gates – for supplementary and non-VTC TSA contracts only,

- effective start and end dates.

TSO gas gate translation information. Per TSO, details of:

- gas gates,
- their Welded Point ID,
- their network code, and
- effective start and end dates.

TSO retailer translation information: Per TSO, details of:

- participant codes,
- their TSO system Shipper IDs,
- effective start and end dates.

Gas gate information (see GAR140).

(This is not an exhaustive list nor does it dictate the internal system table structure for storing the information).

Processing:

The allocation agent:

- validates and stores the trader information in the reference data tables,
- creates a full audit trail entry.

Data outputs:

Updated trader information and TSO translation information with an audit trail entry.

Exceptions:

1. If there are either no matches or more than one match against contract ID, the issue must be raised with the retailer (and if appropriate the TSO) for resolution prior to releasing, to the appropriate allocation participants, the allocation results for the retailer at the gas gate.

Sub-process:	GAS030 Receive gas gate injection quantities
Process:	Accept and validate submissions
Source:	Transmission system owners
Rule references:	41, 43.1.2
Dependencies:	
<hr/>	
Description:	
<p>Every TSO is required to provide to the allocation agent the actual daily injection (called delivered energy in Vector's Open Access Transmission Information System (OATIS)) quantities per gas gate, by 0800 hours on the 4th business day of the month that immediately follows a consumption period.⁷</p> <p>For OATIS-based transmission systems the allocation agent must have reached agreement with the relevant TSO on the terms of use and have been allocated login details.</p> <p>In the instance of an embedded network, the injection quantities for the notional delivery point which the embedded network is part of will be the injection quantities for the parent distribution system gas gate, provided by the TSO of the parent distribution system.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept, validate and store the injection quantities provided by the TSOs. 2. The allocation agent must agree a mechanism with each TSO for the transfer of this information in an efficient manner. 3. Where injection quantities are provided at individual gas gates that belong to a <i>notional delivery point</i>, the system will aggregate these volumes to the <i>notional delivery point</i> level. 	
Data inputs:	
<p>The OATIS file format, detailed below, will be the format used by all TSOs.</p> <p>Each file contains information for one gas gate (delivery point).</p> <p>Each file is in .CSV format.</p> <p>Each file is essentially a report with titles, sub-headings, data rows and a row of totals. Currently the mechanism for obtaining this information is via a download from the OATIS website. Files can be downloaded singly or, with the appropriate permissioning, the allocation agent is able to download all files into one zipped file in one action. The following format is for each individual file, which is for one gas gate for a complete consumption period.</p>	

⁷ Note, that until 30 June 2009, such information is required to be provided by 1200 hours (rather 0800 hours) on the 4th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.


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"11/12/2007","0","108402","40.929","4436.859"
"12/12/2007","0","127342","40.996","5220.619"
"13/12/2007","0","104604","41.034","4292.33"
"14/12/2007","0","102918","41.113","4231.279"
"15/12/2007","0","65849","41.065","2704.108"
"16/12/2007","0","45707","40.866","1867.885"
"17/12/2007","0","98344","41.007","4032.819"
"18/12/2007","0","105588","41.111","4340.91"
"19/12/2007","0","111060","41.025","4556.341"
"20/12/2007","0","106209","41.059","4360.922"
"21/12/2007","0","91624","40.945","3751.626"
"22/12/2007","0","60392","40.828","2465.71"
"23/12/2007","0","36628","40.978","1500.963"
"24/12/2007","0","29331","41.056","1204.231"
"25/12/2007","0","10036","41.256","414.052"
"26/12/2007","0","18453","41.334","762.741"
"27/12/2007","0","44404","41.158","1827.588"
"28/12/2007","0","35119","41.107","1443.666"
"29/12/2007","0","24093","41.079","989.721"
"30/12/2007","0","19555","41.122","804.16"
"31/12/2007","0","23410","41.333","967.621"

```

Totals,"0",,"2268596",,"92868.18"

Processing:

The allocation agent:

- validates and stores the injection quantities with a date and time stamp.
- aggregates any injection volumes provided at individual gas gate level up to the *notional delivery point* level.

Data outputs:

Gas gate injection quantities.

Exceptions:

1. If there are any validation errors, the complete file is rejected and the issue must be raised with the TSO for resolution.
2. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the incident report.

Sub-process:	GAS040 Receive monthly submissions
Process:	Accept and validate submissions
Source:	Retailers
Rule references:	30.2.3, 31.4, 32.4, 33.4, 40.1
Dependencies:	GAS020
<hr/>	
Description:	
<p>The responsible retailer must provide the allocation agent with the aggregate estimated energy quantities by gas gate for all consumer installations in allocation groups 4 and 6 by 0800 hours on the 4th business day of the month that immediately follows the consumption period to which the information relates so that the allocation agent can perform an initial allocation (rule 31.4).⁸</p> <p>The responsible retailer must also provide the allocation agent with the aggregate estimated energy quantities by gas gate for all consumer installations in allocation groups 4 and 6 by 0800 hours on the 9th business day of the 4th month following the consumption period to which the information relates so that the allocation agent can perform an interim allocation (rule 32.4).</p> <p>The responsible retailer must further provide the allocation agent with the aggregate estimated energy quantities by gas gate for all consumer installations in allocation groups 4 and 6 by 0800 hours on the 14th business day of the 13th month that follows the consumption period to which the information relates so the allocation agent can perform a final allocation (rule 33.4).</p> <p>This is also the mechanism by which retailers report the proportion of historic estimates contained within the consumption information to the allocation agent (rule 40.1).</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept and validate all submissions. 2. The allocation agent must store only valid submissions. 3. The allocation agent must report any errors to the sender. 4. Error reports must have sufficiently detailed error messages to assist users to correct erroneous submissions and to allow them to reload correct information. 5. Subsequent submissions must be regarded as superseding earlier submissions with the same key attributes and for the same consumption period. 6. Where submissions are provided at individual gas gates that belong to a <i>notional delivery point</i>, the system will aggregate these volumes to the <i>notional delivery point</i> 	

⁸ Note, that until 30 June 2009, such information is required to be provided by 1200 hours (rather 0800 hours) on the 4th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

level but only after assigning the correct contract ID.

7. All submissions must be date and time stamped on acceptance by the allocation agent.

Data inputs:

Trader information (GAS020).

Reference data.

The key attributes are:

- consumption period,
- allocation participant,
- gas gate,
- allocation group.

The file format for submission information for allocation groups 4 and 6 is:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAS040"
Sender	Char (4)	O	Optional
Allocation Participant	Char (4)	M	Valid code of retailer whose consumption information is provided. Each file will contain information for only one allocation participant.
Recipient	Char (4)	M	"ALLA" (code of allocation agent)
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which consumption information applies. In one file there will only be information for one consumption period.
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code where allocation participant trades in consumption period
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Char (1)	M	Allocation group, either 4 or 6

Description	Type	M/O	Validation
Contract ID	Char (8)	O	Contract ID for gas transmission contract. Optional, but always ignored by the allocation system. Derived by the allocation agent from the retailer trader information – gas transmission contracts.
Consumption (GJ)	Num (8.3)	M	Consumption in GJ
Quantity of Historic Estimate (GJ)	Num (8.3)	M	Consumption in GJ
Number of Installations	Num (6)	O	Number of installations making up the monthly aggregate volume. Optional.

Example (Monthly Submission – Groups 4 and 6):	HDR,GAS040,SENA,RETA,ALLA,02/11/2008,12:32:02,2 DET,10/2008,RETA,TWA35610,NETA,4,1109,445.050,123.754,85 DET,10/2008,RETA,TWA35610,NETA,6,1109,1536.667,384.166,1002
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Processing:
The allocation agent: <ul style="list-style-type: none"> validates submissions, derives the contract ID and stores valid data with a date and time stamp. reports errors to the sender.
Data outputs:
Valid monthly submissions for allocation groups 4 and 6.
Exceptions:
<ol style="list-style-type: none"> If there are any validation errors, the complete file is rejected. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the Incident report.

Sub-process:	GAS050 Receive daily ICP submissions
Process:	Accept and validate submissions
Source:	Retailers
Rule references:	30.1.2, 30.2.3, 31.1, 31.2, 32.1, 32.2, 33.1, 33.2, 40.1
Dependencies:	GAS020
<hr/>	
Description:	
<p>The responsible retailer is required to provide the allocation agent with the actual daily energy quantities for all consumer installations in allocation groups 1 and 2, and, estimated daily energy quantities for all consumer installations in allocation group 3, by gas gate, by 0800 hours on the 4th business day of the month that immediately follows the consumption period to which the information relates so the allocation agent can perform an initial allocation (rules 31.1 and 31.2).⁹</p> <p>The responsible retailer is also required to provide the allocation agent with the actual daily energy quantities for all consumer installations in allocation groups 1 and 2, and, estimated daily energy quantities for all consumer installations in allocation group 3, by gas gate, by 0800 hours on the 9th business day of the 4th month that follows the consumption period to which the information relates so the allocation agent can perform an interim allocation (rule 32.1 and 32.2).</p> <p>The responsible retailer is further required to provide the allocation agent with the actual daily energy quantities for all consumer installations in allocation groups 1 and 2, and, estimated daily energy quantities for all consumer installations in allocation group 3, by gas gate, by 0800 hours on the 14th business day of the 13th month that follows the consumption period to which the information relates, to enable the allocation agent to perform a final allocation (rule 33.1 and 33.2).</p> <p>This is also the mechanism by which retailers report the proportion of historic estimates contained within the consumption information to the allocation agent (rule 40.1).</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept and validate all submissions. 2. The allocation agent must store only valid submissions. 3. The allocation agent must report any errors to the sender. 4. Error reports must have sufficiently detailed error messages to assist users to correct erroneous submissions and to allow them to reload correct information. 5. Subsequent submissions must be regarded as superseding earlier submissions with the same key attributes and for the same consumption period. 	

⁹ Note, that until 30 June 2009, such information is required to be provided by 1200 hours (rather 0800 hours) on the 4th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

6. All submissions must be date and time stamped on acceptance by the allocation agent.
7. Where submissions are provided at individual gas gates that belong to a *notional delivery point*, the system will aggregate these volumes to the *notional delivery point* level but only after assigning the correct contract ID. (In this instance as the data is at ICP level the allocation system will be 'changing' the gas gate).
8. The retailer must supply information for every day that it is supplying gas to an ICP i.e. there cannot be gaps if say the ICP was inactive for a few days in the month. Zero values must be supplied for days with no consumption. The only time gaps are permitted in the submission file is when an ICP switched during the month and therefore ICP information ended for one retailer and commenced for another retailer partway through a month (i.e. for a particular ICP there is a leading gap from the start of the consumption period or a trailing gap to the end of the consumption period signifying the start or end of supply to the ICP). (In regards to rules 30.1.2 and 30.2.3, the interpretation of "supply" in these specifications is the supply of gas, whether or not that gas is being consumed, and includes the commencement of a contract for the supply of gas).
9. The retailer can only submit information for an ICP once in a file i.e. a retailer cannot provide two submissions in the same file for the same ICP identifier. This is because the system will see the second submission as a duplicate, rather than a revision.

Data inputs:

Trader information (GAS020).

Reference data.

The key attributes are:

- consumption period,
- allocation participant,
- ICP,
- consumption day.

The file format for submission information for allocation groups 1, 2 and 3 is:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAS050"
Sender	Char (4)	O	Optional
Allocation Participant	Char (4)	M	Valid code of retailer whose consumption information is provided. Each file will contain information for only one allocation participant.
Recipient	Char (4)	M	"ALLA" (code of allocation agent)
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which consumption information applies. In one file there will only be information for one consumption period.
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code where allocation participant trades in consumption period
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Char (1)	M	1, 2 or 3.
Profile Code	Char (4)	M	Valid static deemed profile code for use by retailer or "XTOU".
Contract ID	Char (8)	O	Contract ID for the supply of gas. Optional, but always ignored by the allocation system. Derived by the allocation agent from the retailer trader information - contracts.
ICP	Char (15)	M	ICP unique identifier
Consumption Day	DD/MM/YYYY	M	Date of the day in the consumption period to which consumption information applies
Consumption (GJ)	Num (8.3)	M	Consumption in GJ
Quantity of Historic Estimate (GJ)	Num (8.3)	M/O	Consumption in GJ. Mandatory for allocation group 3 consumption information.
Estimate Indicator	Char (1)	O	"E" used to indicate estimated data in lieu of missing data for allocation groups 1,2, otherwise field left blank

Example (Daily Submission – Groups 1-3):	HDR,GAS050,SENA,RETA,ALLA,02/11/2008,12:32:02,4 DET,10/2008,RETA,TWA35610,NETA,1,XTOU,1120,0123456789QT123,01/10/2008,759.025 DET,10/2008,RETA,TWA35610,NETA,1,XTOU,1120,0123456789QT123,02/10/2008,787.756 DET,10/2008,RETA,TWA35610,NETA,3,S316,1120,0123456789QT124,01/10/2008,259.025,123.754 DET,10/2008,RETA,TWA35610,NETA,3,S316,1120,0123456789QT124,02/10/2008,259.025,123.754 Etc
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Processing:
The allocation agent: <ul style="list-style-type: none"> validates submissions, derives the contract ID and stores valid data with a date and time stamp.

- reports errors to the sender.

Data outputs:

Valid daily submissions for allocation groups 1, 2 and 3.

Exceptions:

1. If there are any validation errors, the complete file is rejected.
2. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the Incident report.

Sub-process:	GAS060 Receive daily submissions for dynamic deemed profile types
Process:	Accept and validate submissions
Source:	Retailers
Rule references:	30.2.3, 31.3, 32.3, 33.3, 40.1
Dependencies:	GAS020
<hr/>	
Description:	
<p>The responsible retailer must provide the allocation agent with the estimated daily energy quantities for all consumer installations in allocation group 5, by gas gate, by 0800 hours on the 4th business day of the month that immediately follows the consumption period to which the information relates so the allocation agent can perform an initial allocation (rule 31.1).¹⁰</p> <p>The responsible retailer must also provide the allocation agent with the estimated daily energy quantities for all consumer installations in allocation group 5, by gas gate by 0800 hours on the 9th business day of the 4th month that follows the consumption period to which the information relates so that the allocation agent can perform an interim allocation (rule 32.1).</p> <p>The responsible retailer must further provide the allocation agent with the estimated daily energy quantities for all consumer installations in allocation group 5, by gas gate, by 0800 hours on the 14th business day of the 13th month that follows the consumption period to which the information relates so the allocation agent can perform a final allocation (rule 33.1).</p> <p>This is also the mechanism by which retailers report the proportion of historic estimates contained within the consumption information to the allocation agent (rule 40.1).</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept and validate all submissions. 2. The allocation agent must store only valid submissions. 3. The allocation agent must report any errors to the sender. 4. Error reports must have sufficiently detailed error messages to assist users to correct erroneous submissions and to allow them to reload correct information. 5. Subsequent submissions must be regarded as superseding earlier submissions with the same key attributes and for the same consumption period. 6. All submissions must be date and time stamped on acceptance by the allocation agent. 7. Where submissions are provided at individual gas gates that belong to a <i>notional</i> 	

¹⁰ Note, that until 30 June 2009, such information is required to be provided by 1200 hours (rather 0800 hours) on the 4th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

delivery point, the system will aggregate these volumes to the *notional delivery point* level but only after assigning the correct contract ID.

8. A submission must be supplied for every day in the month unless the retailer's trader information has commencement/cessation dates partway through a month, or a leading gap from the start of the consumption period or a trailing gap to the end of the consumption period exists in the submission file signifying the retailer starting or ceasing to supply allocation group 5 consumers.

Data inputs:

Trader information (GAS020).

Reference data.

The key attributes are:

- consumption period
- allocation participant
- gas gate
- profile code
- consumption day

The file format for submission information for allocation group 5 is:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAS060"
Sender	Char (4)	O	Optional
Allocation Participant	Char (4)	M	Valid code of retailer whose consumption information is provided. Each file will contain information for only one allocation participant.
Recipient	Char (4)	M	"ALLA" (code of allocation agent)
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which consumption information applies. In one file there will only be information for one consumption period.
Allocation Participant	Char (4)	M	Valid code of retailer

Description	Type	M/O	Validation
Gas Gate	Char (8)	M	Valid gas gate code where allocation participant trades in consumption period
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Char (1)	M	Allocation group 5 only
Profile Code	Char (4)	M	Registered dynamic deemed profile code approved for use by retailer.
Contract ID	Char (8)	O	Contract ID for the supply of gas. Optional, but always ignored by the allocation system. Derived by the allocation agent from the retailer trader information - contracts.
Consumption Day	DD/MM/YYYY	M	Date of the day in the consumption period to which consumption information applies
Consumption (GJ)	Num (8.3)	M	Consumption in GJ
Quantity of Historic Estimate (GJ)	Num (8.3)	M	Consumption in GJ
Number of Installations	Num (6)	M	Number of installations making up the daily aggregate volume

Example (Daily Submission-Group 5):	HDR,GAS060,SENA,RETA,ALLA,02/11/2008,12:32:02,2 DET,10/2008,RETA,TWA35610,NETA,5,D316,1109,01/10/2008,759.025,123.754,75 DET,10/2008,RETA,TWA35610,NETA,5,D316,1109,02/10/2008,384.756,62.365,75 Etc
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Processing:
The allocation agent: <ul style="list-style-type: none"> validates submissions, derives the contract ID and stores valid data with a date and time stamp. reports errors to the sender.
Data outputs:
Valid daily submissions for allocation group 5.
Exceptions:
<ol style="list-style-type: none"> If there are any validation errors, the complete file is rejected. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the incident report.

Sub-process:	GAS070 Receive As-Billed information
Process:	Accept and validate submissions
Source:	Retailers
Rule references:	52.2.1
Dependencies:	
<hr/>	
Description:	
<p>The Rules require each retailer to provide the allocation agent with the total quantities billed, by gas gate and aggregated by invoice month, for the previous billing month by 0800 hours on the 11th business day of each month. (N.B. The "invoice month" refers to the previous consumption period (i.e. the last calendar month); the "previous billing month" refers to the month prior to the previous consumption period; "actual sales" refers to the total quantities billed, in accordance with rule 52.3. Therefore, in other words, the Rules require a retailer to provide the allocation agent with the total billed quantities of gas contained in that retailer's invoices dated in the previous consumption period (previous calendar month).)</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must accept and validate all submissions. (N.B. as-billed information may be positive or negative.) 2. The allocation agent must store only valid submissions. 3. The allocation agent must report any errors to the sender. 4. Error reports must have sufficiently detailed error messages to assist users to correct erroneous submissions and to allow them to reload correct information. 5. Subsequent submissions must be regarded as superseding earlier submissions with the same key attributes and for the same consumption period. 6. The retailer must provide as-billed information for every gas gate for which a consumption information submission was to be provided, for the previous billing month (i.e. the calendar month prior to the previous consumption period). (N.B. Because of the lag between when consumption information is submitted and when as-billed information is submitted, the retailer may end up submitting a GAS070 file for a gas gate after a trading notification has ceased at that gas gate. Therefore, the system shall accept all as-billed information submitted, but shall provide a warning to the person uploading the file if there is no trading notification in place. These warning messages should still be forwarded to the Incident Report.) 	
Data inputs:	
<p>Trader information (GAS020). Reference data. The key attributes are: Month Billed</p>	

Allocation Participant
 Gas Gate
 The file format is:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAS070"
Sender	Char (4)	O	Optional.
Allocation Participant	Char (4)	M	Valid code of retailer whose information is provided. Each file will contain information for only one allocation participant.
Recipient	Char (4)	M	"ALLA" (code of allocation agent)
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Month Billed	MM/YYYY	M	The previous consumption period. In one file there will only be information for one billing month.
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code where allocation participant trades in consumption period
Network Code	Char (4)	M	Valid network code at gas gate
Actual Sales (GJ)	Num (8.3)	M	Consumption in GJ

Example (As-Billed Data):	HDR,GAS070,SENA,RETA,ALLA,02/11/2008,12:32:02,2 DET,10/2008,RETA,TWA35610,NETA,3224.232 DET,10/2008,RETA,HST05210,NETA,2595.726
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Processing:

The allocation agent:

- validates submissions and stores valid data with a date and time stamp.
- reports errors to the sender (see below).

Where anomalies are found when validating the gas gates of a retailer's file (additional information is provided or information is missing for expected gas gates), then warning messages, not errors, are reported to the sender.

Data outputs:
Valid as-billed information.
Exceptions:
<ol style="list-style-type: none">1. If there are any validation errors, the complete file is rejected. The file is not rejected if there are only warnings.2. If the complete information is not supplied by the time specified in the Rules, a potential rule breach is logged and reported in the incident report.

Sub-process:	GAS080 Receive Meter Reading Frequency Information
Process:	Accept and validate submissions
Source:	Retailers
Rule references:	40.2 (reference to 29.4.3 and 29.5)
Dependencies:	
<hr/>	
Description:	
By 1200 hours on the 10th business day of each month a report on the dates, frequency and number of validated register readings obtained in accordance with rules 29.4.3 and 29.5 during the previous 4 months and 12 months. (N.B. Non-TOU (meter) in the context of this file format includes a TOU meter assigned to allocation groups 5 and 6 in accordance with rule 29.3 and 29.6)	
Business requirements:	
<ol style="list-style-type: none"> 1. The system must have a process that accepts, validates, reports errors back to the sender and stores valid submissions in an efficient manner. 2. Error reports should have detailed error messages to assist users in correcting erroneous submissions and to allow them to reload correct information. 3. Subsequent submissions must be regarded as superseding earlier submissions with the same key attributes and for the same consumption period. 4. A report is expected for every retailer that provides submissions for at least one of the allocation groups 3, 4, 5 or 6. 	
Data inputs:	
Reference data. The key attributes are: Allocation Participant Consumption Period. The file format is:	

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAS080"
Sender	Char (4)	O	Optional
Allocation Participant	Char (4)	M	Valid code of retailer whose data is provided. Each file will contain information for only one allocation participant.

Recipient	Char (4)	M	"ALLA" (code of allocation agent)
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Allocation Participant	Char (4)	M	Valid code of retailer
Consumption Period	MM/YYYY	M	The last month included in the period to which the information applies. In one file there will only be information for one consumption period.
Non-TOU Consumer Installation Count	Num (6)	M	Check format.
Rolling 4 Month Non-TOU Consumer Installation Count	Num (6)	M	Check format.
Rolling 4 Month Non-TOU Consumer Installation Validated Register Reading Count	Num (6)	M	Check format.
Rolling 4 Month Non-TOU Validated Register Reading Percentage	Num (3.2)	M	Must be the rolling 4 month non-TOU consumer installation validated register reading count divided by rolling 4 month non-TOU consumer installation count * 100
Rolling 12 Month Non-TOU Consumer Installation Count	Num (6)	M	Check format.
Rolling 12 Month Non-TOU Validated Register Reading Count	Num (6)	M	Check format.
Rolling 12 Month Non-TOU Validated Register Reading Percentage	Num (3.2)	M	Must be the rolling 12 month non-TOU consumer installation validated register reading count divided by rolling 12 month non-TOU consumer installation count * 100

Example (Meter Read Frequency Data):	HDR,GAS080,SENA,RETA,ALLA,02/11/2008,12:32:02,1 DET,RETA,10/2008,1004,1130,1065,94.25,950,946,99.58
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Processing:
The allocation agent: <ul style="list-style-type: none"> validates submissions and stores valid data with a date and time stamp. reports errors to the sender.

Data outputs:
Valid meter reading frequency information.
Exceptions:
<ol style="list-style-type: none">1. If there are any validation errors, the complete file is rejected.2. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the Incident report.

Sub-process:	GAU010 Determine consumption period and stage
Process:	Allocate UFG
Rule references:	44, 48, 49, 50, 51
Dependencies:	
<hr/>	
Description:	
<p>The allocation agent must perform an initial allocation for the immediately preceding consumption period by 0800 hours on the 5th business day of each month (rule 48).¹¹</p> <p>The allocation agent must perform an interim allocation for the 4th preceding consumption period by 0800 hours on the 11th business day of each month, e.g. in October 2008 an interim allocation will be performed for June 2008 (rule 49).</p> <p>The allocation agent must perform a final allocation for the 13th preceding consumption period. By 0800 hours on the 16th business day of each month, e.g. in October 2008 a final allocation will be performed for September 2007 (rule 50).</p> <p>At any time during the period after an initial allocation has been performed up to 12 months after a final allocation has been performed, Gas Industry Co may require the allocation agent to perform a special allocation for the relevant consumption period in addition to an initial allocation, an interim allocation, or a final allocation for that same consumption period (rule 51).</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must schedule the appropriate allocation run for the given consumption period and allocation stage i.e. initial, interim, final or special. 2. Each allocation run, which includes the delivery of all outputs and reports, must be completed by the times specified in the Rules. 3. The latest and best available submission information must be used in each run. 4. An allocation run can be re-run in accordance with rule 44. 	
Data inputs:	
Business day of month.	
Processing:	
The allocation agent:	

¹¹ Note, that until 30 June 2009, the initial allocation must be performed by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

- determines the consumption period and allocation stage for the run.

Data outputs:

Consumption period and allocation stage.

Sub-process:	GAU020 Check for completeness and estimate
Process:	Allocate UFG
Rule references:	43, 44
Dependencies:	GAS010, GAS020, GAS030, GAS040, GAS050, GAS060, GAU090

Description:	
<p>The allocation agent checks that all the required information has been received from all allocation participants prior to commencing the allocation process. Where information is missing or in error, the allocation agent should, if time permits, notify the relevant allocation participants and request the missing information be submitted or corrected. Otherwise, the allocation agent is required to estimate consumption and injection on behalf of the allocation participant and create appropriate submissions. Estimation is a process of last resort.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must check submissions against the trader information provided by retailers and TSOs. If expected submissions are missing, the allocation agent will contact the allocation participant and request that it is provided, if time permits. 2. The allocation agent must estimate consumption wherever a retailer has failed to submit information (i.e. there is missing information) by the times specified in the Rules. 3. Missing information is defined as follows: <ul style="list-style-type: none"> • where a retailer provides trader information for a new gas gate, a submission is missing if there is no submission, for any type of allocation group, for the first trading consumption period i.e. the month in which trading commences; • for allocation groups 4, 5 and 6, a submission is missing when a submission was provided in the previous consumption period's submissions by the retailer for a particular gas gate and allocation group but one is not present in the submissions for this consumption period; • for allocation groups 1, 2 and 3, a submission is missing when there is a current contract ID for the retailer with an ICP listed for which there has been no submission provided, or, for ICPs that do not appear against contract IDs, a submission was provided for the ICP in the previous consumption period for the last day in that consumption period for that retailer but it is missing in this month's submissions; • for injection quantities, missing information is when a TSO has failed to supply information for a gas gate as indicated in its trader information; • for unmetered gas gates, injection quantities will always be missing; • for direct consumer gas gates where the retailer's trading information indicates the retailer will be submitting consumption information, the information is missing if none has been submitted for this consumption period. 4. The allocation agent must estimate daily injection at gas gates and for days when a TSO has failed to submit information by the times specified in the Rules and for 	

unmetered gas gates.

5. Allocation results calculated using submission quantities where the retailer has set the estimate indicator to "E" in its submission or the allocation agent estimated the submission or injection/TSO quantities must be marked as being such in applicable output reports.
6. The allocation agent must agree any estimation algorithms with Gas Industry Co.

Agreed estimation algorithm

- For allocation groups 4 and 6, the system uses the previous consumption period's monthly quantity submitted multiplied by a factor to adjust for the number of days in the current consumption period and then a factor to adjust for seasonality (whereby the figure is multiplied by the current consumption period's injection quantity at the gas gate divided by the previous consumption period's injection quantity at the gas gate).
- For allocation groups 1, 2 and 3, the system uses the appropriate (business day or non-business day) average daily quantity submitted against each ICP in the previous consumption period, adjusted for seasonality (whereby the figure is multiplied by the current consumption period's injection quantity at the gas gate divided by the previous consumption period's injection quantity at the gas gate) (see GAU090).
- For allocation group 5, the system uses the appropriate (business day or non-business day) average daily quantity submitted in the previous consumption period, adjusted for seasonality (whereby the figure is multiplied by the current consumption period's injection quantity at the gas gate divided by the previous consumption period's injection quantity at the gas gate).
- For missing injection quantities for other than unmetered gas gates, the system uses the appropriate (business day or non-business day) average injection quantities in the previous consumption period, and adjusted for seasonality (the figure is then multiplied by the current consumption period's total consumption information quantity at the gas gate divided by the previous consumption period's total consumption information quantity at the gas gate).
- For direct consumer gas gates where retailers are not submitting consumption information, the system uses the total injection quantity as the retailer's total consumption information submission quantity and the allocation group provided by the retailer as part of its trader information and the profile code of XTOU. If any or all of the daily injection quantities are missing, the system shall use the injection quantity provided for the same day(s) in the previous consumption period.
- For direct consumer gas gates where retailers are expected to submit consumption information (as per their trader information), the system estimates as described above in the first 3 bullet points i.e. the standard estimation process.
- For missing daily injection quantities at unmetered gas gates, the system uses the total consumption information for the current consumption period, divided by the number of days in the month.
- In the event that information provided at a gas gate for the current consumption period is missing some or all of the injection quantity and some or all of the consumption information, then in order to adjust the estimate of the injection/consumption quantities for seasonality, the previous consumption period's injection/consumption quantities (adjusted for business day / non-business day) are multiplied by the ratio of the total injection quantity across all gas gates for which there is no missing submission data in the current consumption period over the total injection quantity across all of the same gas gates for the previous

<p>consumption period.</p> <ul style="list-style-type: none"> • An estimated quantity of zero is created in the instance where a retailer notified the allocation agent that it was intending to supply gas at a gas gate from the start of the consumption period, but then did not provide any consumption information to the allocation agent (and the allocation agent was not able to obtain an estimate from the retailer in time to prevent the estimation algorithm from needing to be used). • When consumption information is estimated, the associated quantity of historical estimates must be set to zero. • When consumption information is estimated using the previous consumption period's information, the profile code (if relevant) should also be extracted from the previous consumption period's information. • When consumption information is estimated, the contract ID must be obtained from the latest information held about the retailer's gas transmission contracts.
Data inputs:
<p>Consumption period and allocation stage. Trader information (GAS020). Submission information for the current and previous consumption periods from retailers (GAS040, GAS050, GAS060). Injection information from TSOs for the current and previous consumption periods (GAS030). Estimated consumption or injection information (see GAU090). Reference data – average daily consumption per allocation group. Retailer gas transmission contract ID details</p>
Processing:
<p>The allocation agent:</p> <ul style="list-style-type: none"> • checks that the submission information has been provided by each retailer for the consumption period at the gas gates indicated in their trader information. • checks that the TSOs have provided daily injection quantities at each of their gas gates for each day in the consumption period (unless the gas gate was commissioned or decommissioned partway through a consumption period) as indicated in the trader information; • reports missing information. • for missing information, generates submissions with estimates, together with an additional estimate indicator (set to 'E'). • includes these submissions in subsequent processes.
Data outputs:
<p>Details of missing information. Submissions created by the system with an attached estimate indicator set to 'E'.</p>

Exceptions:

1. If the information is not supplied by the time specified in the Rules, a rule breach is logged and reported in the incident report for each allocation participant in breach.

Sub-process:	GAU030 Calculate AUFG factor
Process:	Allocate UFG
Rule references:	46.3, 46.4.2, 47, 79 (see also 43.3)
Dependencies:	GAS030 GAS040 GAS050 GAS060
<hr/>	
Description:	
<p>The allocation agent calculates the annual UFG factor (AUFG) for a gas year for every gas gate (singles and <i>notional delivery points</i> but not the individual gas gates of a <i>notional delivery point</i>). The AUFG is used to calculate allocation quantities of consumption for allocation groups 1 and 2.</p> <p>The AUFG is calculated annually and published on the 1st business day of July, and it applies to the whole gas year (for every consumption period within that year) from 1st October following publication (the commencement of the gas year).</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must calculate the annual UFG factor in accordance with the following formula (rule 46): <p style="text-align: center;">AUFG = $\Sigma E / \Sigma C$</p> <p>where:</p> <p>AUFG is the applicable annual UFG factor for the gas gate.</p> <p>ΣE is the sum of the actual daily energy quantities injected for a particular gas gate during the 12 months up to and including February of the previous gas year (in GJ).</p> <p>ΣC is the sum of the best available consumption information for all allocation groups for the gas gate during the 12 months up to and including February of the previous gas year (in GJ).</p> 2. For the gas year 2008/2009, the AUFG for each gas gate must be calculated using 12 months of actual daily energy quantities and consumption information for that gas gate from October 2006 to September 2007 (not from March to February) (see transition rule 79.2.1), or if not available: <ol style="list-style-type: none"> a. estimating such quantities or information (see transition rule 78.3); or b. using the information during that period for all gas gates (see transition rule 79.2.3). 3. For the gas year 2009/2010, the AUFG for each gas gate must be calculated using 12 months of actual daily energy quantities and consumption information for that gas gate from October 2007 to September 2008 (see transition rule 79.2.2), or if not available: <ol style="list-style-type: none"> a. estimating such quantities or information (see transition rule 78.3); or b. using the information during that period for all gas gates (see transition rule 79.2.3). 4. For the gas years 2008/2009 and 2009/2010, if the calculations in points 2 and 3 above respectively, result in factors less than 0.985, then 0.985 must be used as the 	

AUFG.

5. For the gas years 2008/2009 and 2009/2010, if the calculations in points 2 and 3 above respectively, result in factors greater than 1.035, then 1.035 must be used as the AUFG.
6. For the gas years 2010/2011 and onwards, the AUFG for each gas gate is calculated as defined in point 1 above, i.e. using 12 months of actual daily energy quantities and consumption information for that gas gate up to and including February of the previous gas year (rule 46.3).
7. For the gas years 2010/2011 and later, there are no floor or cap values as described in points 4 and 5.
8. If a force majeure event occurs at a gas gate, the allocation agent may give notice to Gas Industry Co, provided such notice is given no later than 10 business days prior to the date that the AUFG must be published. Gas Industry must then determine the applicable AUFG for that gas gate in the next gas year. In this case the allocation agent must instead use the AUFGs calculated and provided by Gas Industry Co (rule 47).
9. The allocation agent must publish the AUFG per gas gate on the allocation agent website (see report GAR100).
10. If the AUFG was determined by Gas Industry Co, the publication of the AUFGs must indicate that this was the case.

Data inputs:

Today's date.

Cap and floor values (1.035 and 0.985 for 2008/2009 and 2009/2010) (GAS020).

Submission information for the appropriate consumption periods from retailers (GAS040, GAS050, GAS060).

Injection information from TSOs (GAS030) for the appropriate consumption periods.

Processing:

The allocation agent, for each gas gate:

- aggregates the appropriate consumption periods' daily injection quantities;
- aggregates the appropriate consumption periods' submission information;
- divides the former by the latter to give the annual UFG factor;
- if rule 47 applies, inputs the annual UFG factor provided by Gas Industry Co together with an assessment indicator;
- publishes the AUFG and any indicators on the website using output GAR100.

Data outputs:

AUFGs per gas gate and gas year (with an appropriate indicator when provided by Gas Industry Co) for use in the allocation process of consumption periods in the relevant gas year.

Exceptions:

If ΣC is zero then AUFG is 1 (one).

Sub-process:	GAU040 Apply AUFG to allocation groups 1 and 2
Process:	Allocate UFG
Rule references:	45.2.3
Dependencies:	GAS030 GAS050 GAU030
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Description:	
<p>The allocation agent calculates the allocated quantities for each day in the consumption period for allocation groups 1 and 2 for each gas gate (singles and <i>notional delivery points</i> but not the individual gas gates of a <i>notional delivery point</i>) and retailer.</p>	
Business requirements:	
<p>1. For each consumption period and allocation stage, the allocation agent must calculate the allocated quantities for allocation groups 1 and 2 (separately not combined) for each gas gate, retailer, contract ID and consumption day in the consumption period, in accordance with the following formula:</p> $\mathbf{AQ1\&2 = AUFG \times C1\&2}$ <p>where:</p> <p>AQ1&2 is the quantity of gas in GJ to be allocated to allocation groups 1 and 2 for the day for the gas gate.</p> <p>AUFG is the applicable annual UFG factor calculated in accordance with rule 46 (and calculated in GAU030) for the gas gate.</p> <p>C1&2 is the consumption information for allocation groups 1 and 2 for the day, retailer and gas gate (in GJ) provided in accordance with rules 31 to 33 (and submitted in GAS050).</p>	
Data inputs:	
<p>Consumption period.</p> <p>Allocation stage.</p> <p>AUFG applicable to consumption period and gas gate.</p> <p>Submission information for the appropriate consumption periods from retailers but only allocation groups 1 and 2 (provided in GAS050).</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> extracts the appropriate submissions for allocation groups 1 and 2; calculates the allocation quantity of each submission by multiplying the consumption figure by the applicable AUFG. 	

Data outputs:

Allocated quantities for allocation groups 1 and 2 (separately not combined) for each gas gate, retailer, contract ID, consumption day in the consumption period, and allocation stage.

Exceptions:

Sub-process:	GAU050 Calculate MUFG factor
Process:	Allocate UFG
Rule references:	46.3.2
Dependencies:	GAU040
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Description:	
<p>The allocation agent calculates the monthly UFG factor (MUFG) which is used to calculate allocation quantities of consumption for allocation groups 3, 4, 5 and 6. The allocation agent also publishes these factors on the website.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. For each consumption period and allocation stage, the allocation agent must calculate the MUFG per gas gate, store it for subsequent use in the current allocation process and publish it on the website (see report GAR070). 2. The allocation agent must calculate the monthly UFG factor (MUFG) in accordance with the following formula: $\mathbf{MUFG = (\Sigma E - \Sigma AQ1\&2) / \Sigma C3-6}$ <p>where:</p> <p>MUFG is the applicable monthly UFG factor for the gas gate for the consumption period.</p> <p>ΣE is the sum of the actual daily energy quantities injected at a particular gas gate for the consumption period provided by the TSO under rule 41 (in GJ), i.e. output from GAS030.</p> <p>$\Sigma AQ1\&2$ is the sum of daily allocated quantities allocated to allocation groups 1 and 2 for the gas gate for the consumption period under rule 45.2.3 (in GJ), i.e. output from GAU040.</p> <p>$\Sigma C3-6$ is the sum of the submission consumption information for allocation groups 3, 4, 5 and 6 for the gas gate for the consumption period provided in accordance with rules 31 to 33 (in GJ), i.e. output from GAS040, GAS050 (allocation group 3 only) and GAS060. If the sum is zero then use ΣE.</p> 	
Data inputs:	
<p>Consumption period.</p> <p>Allocation stage.</p> <p>Allocated quantities for allocation groups 1 and 2 for the appropriate consumption period (output from GAU040).</p> <p>Submission information for the appropriate consumption period from retailers (GAS040, GAS050 (only allocation group 3 information) and GAS060).</p> <p>Injection information from TSOs for the appropriate consumption period (GAS030).</p>	

Processing:

The allocation agent:

- aggregates the injection information per gas gate (**ΣE**);
- aggregates the allocated quantities for allocation groups 1 and 2 per gas gate (**$\Sigma AQ1\&2$**);
- extracts the submission information with allocation groups 3, 4, 5 and 6 and aggregates them by gas gate (**$\Sigma C3-6$**). If the sum is zero then **ΣE** is used instead;
- calculates **$(\Sigma E - \Sigma AQ1\&2) / \Sigma C3-6$** ;
- stores the MUFG per gas gate for the consumption period for use in the current allocation process;
- publishes the MUFG on the website using output GAR100.

N.B. MUFG factors can have negative or zero values.

Data outputs:

MUFG per gas gate for the consumption period and allocation stage.

Exceptions:

If **$\Sigma AQ1\&2$** is zero and **$\Sigma C3-6$** is zero but **ΣE** is greater than zero, the process in GAU100 applies

Sub-process:	GAU060 Apply MUFG to allocation groups 3 and 5
Process:	Allocate UFG
Rule references:	45.2.4
Dependencies:	
<hr/>	
Description:	
The allocation agent calculates the allocated quantities for each day in the consumption period for allocation groups 3 and 5 for each gas gate (singles and <i>notional delivery points</i> but not the individual gas gates of a <i>notional delivery point</i>) per retailer.	
Business requirements:	
<ol style="list-style-type: none"> 1. For each allocation run the allocation agent must extract only consumption information submissions for allocation groups 3 and 5 (where information was provided by day). 2. For each consumption period and allocation stage, the allocation agent must calculate the allocated quantities for allocation groups 3 and 5 (separately not combined) for each gas gate, retailer, contract ID, profile and consumption day in the consumption period in accordance with the following formula: <p style="text-align: center;">AQ3&5= MUFG x C3&5</p> <p>where:</p> <p>AQ3&5 is the quantity of gas in GJ to be allocated to allocation groups 3 and 5 for the day.</p> <p>MUFG is the applicable monthly UFG factor calculated in accordance with rule 46 (and calculated in GAU050).</p> <p>C3&5 is the consumption information for allocation groups 3 and 5 for the day in GJ provided in accordance with rules 31 to 33 (and submitted in GAS050 and GAS060).</p> 	
Data inputs:	
<p>Consumption period.</p> <p>Allocation stage.</p> <p>MUFG applicable to consumption period, allocation stage and gas gate.</p> <p>Submission information (daily) for the appropriate consumption periods from retailers but only for allocation groups 3 and 5 (provided in GAS050 and GAS060).</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • extracts the appropriate submissions with allocation groups 3 and 5; • multiplies the consumption figures by the applicable MUFG; 	
Data outputs:	

Allocated quantities for allocation groups 3 and 5 (separately not combined) for each gas gate, retailer, contract ID, profile and consumption day in the consumption period and allocation stage.

Exceptions:

Sub-process:	GAU070 Calculate gas gate residual profile
Process:	Allocate UFG
Rule references:	45.2.5
Dependencies:	
<hr/>	
Description:	
<p>The allocation agent calculates and publishes the gas gate residual profile for the consumption period. The gas gate residual profile is the remaining quantity of unaccounted for gas (UFG) for each day in the consumption period when the allocated quantities for allocation groups 1, 2, 3 and 5 are subtracted from the daily injection quantity of each gas gate.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. For each consumption period and allocation stage, the allocation agent must calculate the gas gate residual profile and store it for 'profiling' monthly submissions of allocation groups 4 and 6. 2. The allocation agent must calculate the gas gate residual profile value for each day in the consumption period and allocation stage by: <ul style="list-style-type: none"> • obtaining the injection information for the gas gate for that day (I). • aggregating the allocated quantities for allocation groups 1, 2, 3 and 5 for the gas gate for that day (AQ). • subtracting AQ from I, giving the profile value for the gas gate for that day. 3. The allocation agent must provide the gas gate residual profile to retailers (See report GAR040). 4. The allocation agent must derive the seasonal adjustment daily shape values for a gas gate from each gas gate residual profile for all retailers at that gas gate for the previous 24 months in which allocations have been performed (i.e. the seasonal adjustment daily shape values are from 1 October 2008 onwards and are up to 24 months of values, not just one month). 	
Data inputs:	
<p>Consumption period.</p> <p>Allocation stage.</p> <p>Allocated quantities for allocation groups 1, 2, 3 and 5 for the appropriate consumption period and allocation stage (output from GAU040 and GAU060).</p> <p>Injection information from TSOs for the appropriate consumption periods (GAS030).</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • calculates the gas gate residual profile value for each day in the consumption period 	

and allocation;

- stores the gas gate residual profile for use in this allocation process and for use in deriving the seasonal adjustment daily shape values (GAR060);
- provides the gas gate residual profile to retailers using output GAR040.

N.B. A gas gate residual profile can be negative.

Data outputs:

Gas gate residual profile values for each day, for every gas gate for the consumption period and allocation stage. (Can be thought of as a vector of daily values applicable to a consumption period, allocation stage and gas gate.)

Exceptions:

Sub-process:	GAU080 Profile allocation groups 4 and 6 using GGRP and apply the MUFG
Process:	Allocate submission information
Rule references:	45.2.6
Dependencies:	GAU040
<hr/>	
Description:	
<p>The allocation agent profiles the monthly submissions of allocation groups 4 and 6 into daily quantities by using the gas gate residual profile. Once the daily value has been derived, the MUFG factor is applied and the allocated quantity is calculated.</p> <p>The gas gate residual profile quantities are the remaining quantities of gas that need to be allocated to retailers once the daily allocated quantities for allocation groups 1, 2, 3 and 5 have been subtracted from the actual daily energy injection quantity. If there are no submissions for allocation groups 4 and 6 at a gas gate then the residual profile values must be allocated to allocation groups 1, 2, 3 and 5 in addition to AUFG/MUFG. Otherwise the total allocated quantities will not balance with the injection quantity for the gas gate for the consumption day. This process is specified in the <i>Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-13-T: Group 1, 2, 3, and 5 Consumer Installations) Notice 2008</i>.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. For each consumption period and allocation stage, the allocation agent must calculate the allocated quantities for allocation groups 4 and 6 for each gas gate, retailer, contract ID and consumption day in the consumption period, using the gas gate residual profile calculated in GAU070 of the gas gate indicated in the submission. 2. The allocation agent must calculate the daily allocation quantities for allocation groups 4 and 6 by: <ul style="list-style-type: none"> • extracting the appropriate gas gate residual profile and summing all the daily values of the gas gate residual profile, giving the profile total (PT), • calculating a particular day's profile factor (PF) by dividing that day's profile value by the profile total (PT) calculated above, • multiplying the monthly submission consumption quantity by the profile factor (PF), giving the daily profiled consumption quantity (DPCQ), • multiplying the daily profiled consumption quantity (DPCQ) by the applicable MUFG factor, giving a day's allocated quantity (AQ). 3. If there are no submissions for allocation groups 4 and 6 for the consumption day at the gas gate but there is a non zero residual profile value for that day at the gas gate, then this residual profile value must be allocated to all retailers that provided submissions for allocation groups 1, 2, 3 and 5 for that consumption day and gas gate. The allocation for each allocation group must be in proportion to each retailer's allocated quantities over all retailers' allocated quantities for that allocation group for the day at the gas gate. The allocation must be calculated separately for each allocation group for each retailer. The allocation for each allocation group must be in proportion to each allocation group's quantities over all allocation group quantities for the day at the gas gate. 	

Data inputs:
<p>Consumption period.</p> <p>Allocation stage.</p> <p>Submission information for allocation groups 4 and 6 for the appropriate consumption period and allocation stage from retailers (GAS040).</p> <p>Allocated quantities for allocation groups 1, 2, 3 and 5 for each gas gate, retailer and consumption day in the consumption period and allocation stage, output from GAU040 and GAU060.</p> <p>Gas gate residual profile per gas gate calculated in this run in GAU070.</p> <p>MUFG factor applicable to consumption period, allocation stage and gas gate.</p>
Exceptions:
Processing:
<p>The allocation agent:</p> <ul style="list-style-type: none"> • calculates the daily allocation quantities; • outputs (i.e. generates new) <u>daily</u> allocated quantities for allocation groups 4 and 6 using data from the original submissions and the values from the above calculations DPCQ and AQ and includes the appropriate day; • adjusts the allocated quantities of allocation groups 1, 2, 3 and 5 previously calculated in GAU040 and GAU060, when there are no submissions for allocation groups 4 and 6 for the gas gate.
Data outputs:
<p>Allocated quantities for allocation groups 4 and 6 (separately not combined) for each gas gate, retailer, contract ID and day in the consumption period and allocation stage.</p> <p>Possibly, adjusted allocated quantities for allocation groups 1, 2, 3 and 5 (separately not combined) for each gas gate, retailer and consumption day in the consumption period and allocation stage.</p>
Exceptions:

Sub-process:	GAU090 Calculate the daily average consumption per ICP
Process:	Allocate submission information
Rule references:	
Dependencies:	
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Description:	
<p>In order to be able to estimate missing consumption information for ICPs in allocation groups 1, 2 and 3, the system will calculate the average daily business day consumption quantity and the average daily non-business day consumption quantity for the days each ICP was supplied, for possible use in the next consumption period's estimation process. Should they be required in the next consumption period, these averages will be adjusted to account for seasonality, as described in GAU020.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. For each consumption period and allocation stage, the allocation agent must calculate the daily average business day quantities and daily average non-business day quantities for each ICP in allocation groups 1, 2 and 3. 2. The allocation agent may also derive the retailer that is expected to provide submission information in the next consumption period by storing the retailer that submitted consumption on the last consumption day. 	
Data inputs:	
<p>Consumption period. Allocation stage. Submission information for allocation groups 1, 2 and 3 for the appropriate consumption period and allocation stage from retailers (GAS050).</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • calculates the daily average business day quantity of each ICP using the daily submission quantities of each business day in the consumption period and dividing by the total number of business days in the consumption period. • calculates the daily average non-business day quantity of each ICP using the daily submission quantities of each non-business day in the consumption period and dividing by the total number of non-business days in the consumption period. • derives the last retailer that supplied consumption information for the ICP from the submission for the last day. 	
Data outputs:	

Daily average quantities of ICPs – includes the daily average business day and non-business day quantities per ICP together with the last retailer.

Exceptions:

Sub-process:	GAU100 Calculate the allocated quantities when consumption is zero but there is injection
Process:	Allocate submission information
Rule references:	
Dependencies:	GAU050, GAS020, GAS030, GAS040, GAS050, GAS060
<hr/>	
Description:	
<p>This process is an exception process triggered from GAU050.</p> <p>This process is only used when there is positive injection at a gas gate but the total consumption submitted by every retailer is zero. In this instance this process is used to derive the final allocated quantities.</p>	
Business requirements:	
<p>1. If the retailers trading gas at the gas gate during the current consumption period are the same as those that were allocated gas in the previous (i.e. immediately prior) consumption period then the daily injection quantity must be allocated to each retailer and allocation group traded during the current consumption period in proportion to that retailer's average daily allocation for that allocation group over all retailers' average daily allocations (that have matching allocation groups in this consumption period*) that was recorded for the previous consumption period, in accordance with the following formula (a):</p> $AQ_{r,g,d} = EI_d \times (PAQ_{r,g} / PAQ_{total})$ <p>where:</p> <p>g is the allocation group 1,2,3,4,5 or 6;</p> <p>$AQ_{r,g,d}$ is the quantity of gas to be allocated for retailer <r> to the allocation group <g> for day <d>. The applicable retailers and allocation groups are those that were submitted in this consumption period.</p> <p>EI_d is the actual daily energy injection quantity (in GJ) provided by transmission system owners for day <d>;</p> <p>$PAQ_{r,g}$ is the average daily allocated quantity (in GJ) for the previous consumption period for retailer <r> and allocation group <g>. *Where there was no allocation for this retailer in the previous consumption period for this allocation group <g>, then the average daily quantity is zero i.e. $PAQ_{r,g} = 0$.</p> <p>PAQ_{total} is the sum of $PAQ_{r,g}$ for all allocation groups <g> for all retailers <r>.</p> <p>2. If the retailers trading gas at the gas gate during the current consumption period differ from those that were allocated gas in the previous (i.e. immediately prior) consumption period (because one or more retailers have either commenced or ceased supplying gas to a consumer at the gas gate) then the daily injection quantity must be allocated equally to all retailers trading gas in the current consumption period. The allocation per retailer must then be split equally amongst the allocation groups traded by the retailer in the current consumption period. The allocation must be in accordance with the following formula (b):</p>	

$$AQ_{r,g,d} = EI_d / \text{count}(\text{all retailers}) / \text{count}(\text{all allocation groups of retailer } r)$$

where:

g is the allocation group 1,2,3,4,5 or 6;

$AQ_{r,g,d}$ is the quantity of gas in GJ to be allocated for day <d> to the allocation group <g> for retailer <r>. The applicable retailers and allocation groups are those that were submitted in this consumption period.

EI_d is the actual daily energy injection quantity in GJ provided by transmission system owners for day <d>.

count(all retailers) is the number of retailers supplying gas to consumer installations at the gas gate.

count(all allocation groups of R) is the number of allocation groups submitted by retailer <r> for the current consumption period and allocation stage at the gas gate.

- All of the injection quantities submitted and any UFG occurring during the relevant consumption period are to be allocated to the consumer installations in allocation groups 1, 2, 3, 4, 5 or 6 at that gas gate.

Data inputs:

Consumption period and allocation stage.

Trader information (GAS020).

Submission information for the current consumption period from retailers (GAS040, GAS050, GAS060).

Injection information from TSOs for the current consumption periods (GAS030).

Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 (separately, not combined) for each gas gate, retailer, contract ID, consumption day in the previous consumption period, and allocation stage (latest).

Processing:

For the consumption period, allocation stage and qualifying gas gate, the allocation agent:

- summarises each retailer's consumption submissions (zero) for this consumption period and allocation stage by allocation group;
- obtains each retailer's previous month's allocations by allocation group and consumption day and calculates the daily average for each retailer;
- calculates the allocation for each zero submission using the appropriate formula above.

Example of use of formula (a)

Retailer	Allocation Group	Daily Average Allocation of	This consumption period's	($PAQ_{r,g}$)
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		Previous Consumption Period	submission totals	
RETA	1	500	0	500
RETA	2	No entry	0	0
RETB	1	No entry	0	0
RETB	4	700	No entry	0
RETC	4	300	0	300
TOTAL (PAQ_{total})				800

Any day's injection (e.g. 3000 on 05/10/2010) will be allocated as follows:

- $3000 * 500/800 = 1875$ to RETA for allocation group 1 for day 05/10/2010, and
- $3000 * 300/800 = 1125$ to RETC for allocation group 4 for day 05/10/2010.

Example of use of formula (b)

Retailer	Allocation Group	Daily Average Allocation of Previous Consumption Period	This consumption period's submission totals	PAQ_{r,g})
RETA	1	500	0	500
RETA	2	No entry	0	0
RETB	1	No entry	No entry	0
RETB	4	700	No entry	0
RETC	4	300	0	300
TOTAL (PAQ_{total})				800

RETB ceased trading at this gas gate during the previous consumption period. Therefore any day's injection (e.g. 3000 on 05/10/2010) will be allocated equally between RETA and RETC (1500 each) for that day. However as RETA has submissions for 2 allocation groups then their 1500 is split equally again amongst these allocation groups, and therefore the final output will be:

- 750 to RETA allocation group 1 for 05/10/2010
- 750 to RETA allocation group 2 for 05/10/2010
- 1500 to RETC allocation group 4 for 05/10/2010

Data outputs:
Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 (separately, not combined) for each gas gate, retailer, contract ID, consumption day in the consumption period, and allocation stage.
Exceptions:

Sub-process:	GAR010 Daily Retailer Allocation and UFG
Process:	Generate reports
Destination:	Retailers (and distributors with agreement of retailers)
Rule references:	45.2.7,48.2.2, 49.2.2, 50.2.2, 51
Dependencies:	GAU40, GAU60, GAU80
<hr style="width: 50%; margin: auto;"/>	
Description:	
This report details the allocation at a daily aggregation level.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must provide a report setting out the daily quantities of gas allocated to each retailer (and distributor if permitted) for each consumption period: <ul style="list-style-type: none"> • by 0800 hours on the 5th business day of each month for the initial allocation (rule 48.2.2)¹², and • by 0800 hours on the 11th business day of each month for the interim allocation (rule 49.2.2), and • by 0800 hours on the 16th business day of each month for the final allocation (rule 50.2.2), and • the time instructed by Gas Industry Co for special allocations (rule 51). 2. The allocation agent must ensure that only the retailer's own information is included in each retailer's report. 3. The allocation agent must make the information available to distributors as soon as practicable after retailers have received their information and only of information permitted by retailers. 4. The allocation agent must ensure that only information for the particular networks owned by each distributor is given to that distributor. 	
Data inputs:	
Consumption period. Allocation stage. Submission information for all allocation groups (GAS040, GAS050 and GAS060). Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 output from GAU040, GAU60, GAU080 and GAU100. Trader information access permissions.	

¹² Note, that until 30 June 2009, this report must be provided by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

Processing:

The allocation agent:

- Aggregates submission information (S) and allocated quantities (AQ):
 - by
 - consumption period,
 - allocation stage
 - allocation participant
 - gas gate
 - contract ID and
 - consumption day
- calculates the UFG quantity allocated by subtracting the aggregate original consumption from the allocated quantity.
- sets the estimate indicator to 'E' for each aggregate if any of the allocation groups 1 and 2 submissions used in the aggregation contained estimated figures and/or the allocation agent used estimated figures in lieu of missing data from retailers or TSOs i.e. if allocation agent is notified that the GAS050 file contains an estimate for allocation groups 1 or 2 and/or if the allocation agent calculated an estimate.
- formats the report for each aggregate.

N.B. The gas gates in this report will be the singles and *notional delivery points* not the individual gas gates that are part of a *notional delivery point*.

Data outputs:

Daily retailer allocation and UFG report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR010"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	Valid code of retailer for reports sent only to retailers, or "APAR" for reports sent to distributors
Recipient	Char (4)	M	Valid code of retailer or distributor
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"

Description	Type	M/O	Validation
Consumption Period	MM/YYYY	M	Calendar month to which consumption information applies
Allocation Stage	Char(1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Num (1)	M	Allocation group (1 to 6)
Contract ID	Char (8)	M	Contract ID for gas transmission contract.
Consumption Day	DD/MM/YYYY	M	Date of the consumption day for which the allocation has been made
Allocation for Consumption Day (GJ)	Num (10.3)	M	Aggregated
UFG Allocated for Consumption Day (GJ)	Num (10.3)	M	Calculated
Estimate Indicator	Char (1)	O	"E" if estimated data in GAS050 submission file and/or allocation agent has estimated data in lieu of missing data from retailer or TSO, else blank

Example (Daily Allocation):	HDR,GAR010,ALLA,RETA,RETA,02/11/2008,12:32:02,2 DET,10/2008,I,RETA,TWA35610,NETA,4,1109,01/10/2008,759.025,2.314,E DET,10/2008,I,RETA,TWA35610,NETA,4,1109,02/10/2008,712.351,1.896 Etc
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Sub-process:	GAR020 Monthly Retailer Allocation and UFG
Process:	Generate reports
Destination:	Retailers (and distributors with agreement of retailers)
Rule references:	45.2.7, 48.2.2, 49.2.2, 50.2.2, 51
Dependencies:	GAU40, GAU60, GAU80
<hr/>	
Description:	
This report details the allocation at a monthly aggregation level.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must provide a report setting out the monthly quantities of gas allocated to each retailer (and distributor if permitted) for each consumption period: <ul style="list-style-type: none"> • by 0800 hours on the 5th business day of each month for the initial allocation (rule 48.2.2)¹³, and • by 0800 hours on the 11th business day of each month for the interim allocation (rule 49.2.2), and • by 0800 hours on the 16th business day of each month for the final allocation (rule 50.2.2), and • the time instructed by Gas Industry Co for special allocations (rule 51). 2. The allocation agent must ensure that only the retailer's own information is included in each retailer's report. 3. The allocation agent must make the information available to distributors as soon as practicable after retailers have received their information and only of information permitted by retailers. 4. The allocation agent must ensure that only information for the particular networks owned by each distributor is given to that distributor. 	
Data inputs:	
Consumption period. Allocation stage. Submission information for all allocation groups (GAS040, GAS050 and GAS060). Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 output from GAU040, GAU60, GAU080 and GAU100. Trader information access permissions.	

¹³ Note, that until 30 June 2009, this report must be provided by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

Processing:

The allocation agent:

- Aggregates submission information (S) and allocated quantities (AQ):
 - by
 - consumption period,
 - allocation stage
 - allocation participant and
 - gas gate
 - calculates the UFG quantity for each aggregate by subtracting the aggregate original consumption from the allocated quantity;
 - sets the estimate indicator to 'E' for each aggregate if any of the allocation groups 1 and 2 submissions used in the aggregation contained estimated figures and/or the allocation agent used estimated figures in lieu of missing data from retailers or TSOs i.e. if allocation agent is notified that the GAS050 file contains an estimate for allocation groups 1 or 2 and/or if the allocation agent calculated an estimate;
 - formats the report for each aggregate;
 - filters the output appropriately for each recipient.

N.B. The gas gates in this report will be the singles and *notional delivery points* not the individual gas gates that are part of a *notional delivery point*.

Data outputs:

Monthly retailer allocation and UFG report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR020"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	Valid code of retailer for reports sent only to retailers, or "APAR" for reports sent to distributors
Recipient	Char (4)	M	Valid code of retailer or distributor
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"

Description	Type	M/O	Validation
Consumption Period	MM/YYYY	M	Calendar month to which consumption information applies
Allocation Stage	Char(1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Num (1)	M	Allocation group (1 to 6)
Allocation for Consumption Period (GJ)	Num (10.3)	M	Aggregated
UFG Allocated for Consumption Period (GJ)	Num (10.3)	M	Calculated
Estimate Indicator	Char (1)	O	"E" if estimated data in GAS050 submission file and/or allocation agent has estimated data in lieu of missing data from retailer or TSO, else blank

Example (Monthly Allocation):	HDR,GAR020,ALLA,RETA,RETA,02/11/2008,12:32:02,2 DET,10/2008,I,RETA,TWA35610,NETA,4,759.025,2.314,E DET,10/2008,I,RETA,HST05210,NETA,4,712.351,1.896 Etc
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Sub-process:	GAR030 Annual Retailer Allocation and UFG
Process:	Generate reports
Destination:	Retailers (and distributors with agreement of retailers)
Rule references:	45.2.7,48.2.2, 49.2.2, 50.2.2, 51
Dependencies:	GAU40, GAU60, GAU80
<hr/>	
Description:	
This report details the allocation at a rolling annual aggregation level.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must provide the rolling annual allocation report to each retailer (and distributor if permitted) for each consumption period: <ul style="list-style-type: none"> • by 0800 hours on the 5th business day of each month for the initial allocation¹⁴, and • by 0800 hours on the 11th business day of each month for the interim allocation, and • by 0800 hours on the 16th business day of each month for the final allocation, and • the time instructed by Gas Industry Co for special allocations. 2. The report must aggregate information for the consumption period being processed and for the preceding 11 months. 3. The allocation agent must ensure that only the retailer's own information is included in each retailer's report. 4. The allocation agent must make the information available to distributors as soon as practicable after retailers have received their information and only of information permitted by retailers. 5. The allocation agent must ensure that only information for the particular networks owned by each distributor is given to that distributor. 	
Data inputs:	
Consumption period being processed.	
Allocation stage.	
Submission information for all allocation groups (GAS040, GAS050 and GAS060) for previous 12 consumption periods.	
Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 output from GAU040, GAU60 and	

¹⁴ Note, that until 30 June 2009, this report must be provided by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

GAU080 for previous 12 consumption periods.

Trader information access permissions.

Processing:

The allocation agent:

- Aggregates submission information (S) and allocated quantities (AQ):
by
 - allocation participant and
 - gas gate
- calculates the UFG quantity for each aggregate by subtracting the aggregate original consumption from the allocated quantity;
- sets the estimate indicator to 'E' for each aggregate if any of the allocation groups 1 and 2 submissions used in the aggregation contained estimated figures and/or the allocation agent used estimated figures in lieu of missing data from retailers or TSOs i.e. if allocation agent is notified that the GAS050 file contains an estimate for allocation groups 1 or 2 and/or if the allocation agent calculated an estimate;
- formats the report for each aggregate;

N.B. The allocation stage output in this report is the stage associated with the consumption period being processed.

Data outputs:

Annual allocation and UFG report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR030"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	Valid code of retailer for reports sent only to retailers, or "APAR" for reports sent to distributors
Recipient	Char (4)	M	Valid code of retailer or distributor
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Last calendar month to which consumption information applies

Description	Type	M/O	Validation
Allocation Stage	Char(1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Allocation Group	Num (1)	M	Allocation group (1 to 6)
Allocation for year up to and including Consumption Period (GJ)	Num (10.3)	M	Aggregated
UFG allocated for year up to and including Consumption Period (GJ)	Num (10.3)	M	Calculated
Estimate Indicator	Char (1)	O	"E" if estimated data in GAS050 submission file and/or allocation agent has estimated data in lieu of missing data from retailer or TSO, else blank

Example (Annual Allocation):	HDR,GAR030,ALLA,RETA,RETA,02/11/2008,12:32:02,2 DET,10/2008,I,RETA,TWA35610,NETA,4,759.025,2.314,E DET,10/2008,I,RETA,HST05210,NETA,4,712.351,1.896 Etc
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Sub-process:	GAR040 Gas gate residual profile
Process:	Generate reports
Destination:	Retailers (and distributors with agreement of retailers)
Rule references:	48.2.2, 49.2.2, 50.2.2, 51
Dependencies:	GAU070
<hr/>	
Description:	
The allocation agent provides the gas gate residual profile to each retailer (and distributor if permitted).	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must provide the gas gate residual profile (daily values) to each retailer and distributor (if permitted) for each consumption period, allocation stage and gas gate. Where allocation occurs at a notional delivery point, the gas gate residual profile will be published for that notional delivery point and not at the individual gas gates comprising that notional delivery point. 2. The allocation agent must provide the report to each retailer: <ul style="list-style-type: none"> • by 0800 hours on the 5th business day of each month for the initial allocation (rule 48.2.2)¹⁵, and • by 0800 hours on the 11th business day of each month for the interim allocation (rule 49.2.2), and • by 0800 hours on the 16th business day of each month for the final allocation (rule 50.2.2), and • the time instructed by Gas Industry Co for special allocations (rule 51). 3. The allocation agent must ensure that retailers only receive the gas gate residual profile for gas gates where they have a trading notification. 4. The allocation agent must make the information available to distributors as soon as practicable after retailers have received their information and only of information permitted by retailers. 5. The allocation agent must ensure that only information for the particular networks owned by each distributor is given to that distributor. 	
Data inputs:	
Consumption period.	
Allocation stage.	
Reference data.	

¹⁵ Note, that until 30 June 2009, this report must be provided by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-15 to 18-S: Injection information) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*.

Daily gas gate injection quantities from GAS030.
 Gas gate residual profile per consumption period, allocation stage and gas gate output from GAU070.

Processing:

The allocation agent:

- uses the gas gate residual profile per consumption period, allocation stage and gas gate output from GAU070 and the gas gate injection quantities to calculate the gas gate residual profile percentage by dividing the appropriate day's gas gate residual profile value (GGRP) by the total gas gate injection quantity for the month (GI) i.e. GGRP/GI;
- formats the report.

Data outputs:

Gas gate residual profile report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR040"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	Valid code of retailer for reports sent only to retailers, or "APAR" for reports sent to distributors
Recipient	Char (4)	M	Valid code of retailer or distributor
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which information applies
Allocation Stage	Char(1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Consumption Day	DD/MM/YYYY	M	Date of the consumption day for which the information applies

Description	Type	M/O	Validation
Gas Gate Residual Profile (GJ)	Num (10.3)	M	Gas gate residual profile expressed in GJ
Gas Gate Residual Profile (%)	Num (3.4) percentage	M	Gas gate residual profile expressed as percentage of monthly gas injections

Example (Gas Gate Residual Profile):	HDR, GAR040,ALLA,RETA,RETA,02/11/2008,12:32:02,2 DET,10/2008,I,TWA35610,NETA,01/10/2008,152.068,12.4567 DET,10/2008,I,TWA35610,NETA,02/10/2008,143.025,11.75 Etc
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Sub-process:	GAR050 Initial versus final comparison
Process:	Generate reports
Destination:	Retailers, Gas Industry Co (and distributors with agreement of retailers)
Rule references:	53.3
Dependencies:	
<hr/>	
Description:	
Each month, beginning December 2009, the allocation agent provides a report to each retailer, distributor (if permitted) and Gas Industry Co, comparing initial submissions with final submissions for all retailers.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must report to retailers and Gas Industry Co (and distributors if permitted) on the percentage of error in the accuracy for each gas gate between: <ul style="list-style-type: none"> • the aggregated consumption information for consumer installations in allocation groups 3 to 6 provided under rule 31 by each retailer to the allocation agent for initial allocation; and • the aggregated consumption information for consumer installations in allocation groups 3 to 6 provided under rule 33 by each retailer to the allocation agent for final allocation. 2. The allocation agent must provide the report by 1200 hours on the 5th business day of each month, in respect of each consumption period for which a final allocation has been performed in the previous 12 months (N.B. The reference to "previous 12 months" is intended to relate to the "final allocations performed in the previous 12 months" and not the original consumption period when initial consumption information was submitted). 3. The allocation agent must make the information available to distributors as soon as practicable after retailers have received their information and only of information permitted by retailers. 4. The allocation agent must ensure that only information for the particular networks owned by each distributor is given to that distributor. 	
Data inputs:	
Consumption information submissions provided in GAS040, GAS050 and GAS060 for allocation groups 3, 4, 5, or 6, which has been used in final allocations that were processed within the previous 12 months.	
For those same consumption periods that have had an allocation stage of final processed (see above), the consumption information submissions for allocation groups 3, 4, 5, or 6 that have been processed in the initial allocation stage.	
Trader information access permissions.	

Processing:
The allocation agent: <ul style="list-style-type: none"> aggregates the consumption quantities for the key (consumption period, gas gate and allocation participant) in the final allocation and in the initial allocation; file matches on the key; calculates the percentage variation; formats the report.
Data outputs:
Initial versus final submission comparison report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR050"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	"APAR"
Recipient	Char (4)	M	Valid code of recipient
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Last Consumption Period	MM/YYYY	M	Last calendar month to which consumption information applies
Allocation Participant	Char (4)	M	Valid code of retailer
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Initial Consumption (GJ)	Num (10.3)	M	Aggregated consumption for allocation groups 3 to 6 as reported to the allocation agent and expressed in GJ
Final Consumption (GJ)	Num (10.3)	M	Aggregated consumption for allocation groups 3 to 6 as reported to the allocation agent and expressed in GJ
Percentage Variation (%)	Num (3.2) percentage	M	Calculated percentage variation between the final and initial allocations

Example (Initial v Final Submission Comparison Data):	HDR,GAR050,ALLA,APAR,RETA,02/11/2008,12:32:02,2 DET,10/2008,RETA,TWA35610,NETA,759.025,795.528,4.81 DET,10/2008,RETA,HST05210,NETA,445.05,470.512,5.72
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Sub-process:	GAR060 Seasonal adjustment daily shape values
Process:	Generate reports
Destination:	Public website
Rule references:	53.1
Dependencies:	GAU070
<hr/>	
Description:	
The allocation agent publishes the seasonal adjustment daily shape values for the previous consumption period and the previous 23 consumption periods (in which allocations have occurred – i.e. from 1 October 2008) for every allocated gas gate.	
Business requirements:	
<p>1. The allocation agent must publish the seasonal adjustment daily shape values for every allocated gas gate as soon as practicable after the gas gate residual profile information has been delivered (see GAR040) i.e.</p> <ul style="list-style-type: none"> • by 1700 hours on the 5th business day of each month for the initial allocation, and • by 1700 hours on the 11th business day of each month for the interim allocation, and • by 1700 hours on the 16th business day of each month for the final allocation. <p>N.B. This is a variation from the Rules which require that the report is published by 1200 hours on the 1st business day of each month following the allocations in the preceding month.</p>	
Data inputs:	
<p>Consumption period.</p> <p>Allocation stage.</p> <p>Seasonal adjustment daily shape values (per day) per consumption period, allocation stage and gas gate output from GAU070.</p> <p>Gas gate publication exemption list.</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • formats the report. 	
Data outputs:	

Seasonal adjustment daily shape values report format:

Description	Type	M/O	Validation
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR060"
Sender	Char (4)	M	"ALLA" (code of allocation agent)
Allocation Participant	Char (4)	M	"APAR"
Recipient	Char (4)	M	"GASW"
Report Run Date	DD/MM/YYYY	M	Date the report was created
Report Run Time	HH:MM:SS	M	Time the report was created
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Validation
Detail Record Type	Char (3)	M	"DET"
Gas Gate	Char (8)	M	Valid gas gate code
Network Code	Char (4)	M	Valid network code at gas gate
Consumption Day	DD/MM/YYYY	M	Date of the consumption day for which the information applies
Seasonal Adjustment Daily Shape Value (GJ)	Num (10.3)	M	Daily gas gate residual profile value expressed in GJ

Example (SADSV report):	HDR,GAR060,ALLA,APAR,GASW,02/11/2008,12:32:02,2 DET,TWA35610,NETA,01/10/2008,12.450 DET,TWA35610,NETA,02/10/2008,11.750 Etc
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Sub-process:	GAR070 Summary UFG and retailer allocation
Process:	Generate reports
Destination:	Public website
Rule references:	46.4, 53.2.1, 53.2.2, 53.2.3
Dependencies:	
<hr/>	
Description:	
Every month the allocation agent publishes a summary UFG report to the website for the initial, interim and final allocations for every allocated gas gate.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must publish the summary UFG and allocation report for each initial, interim, final and special allocation performed for during the month by 0800 hours on the 5th, 11th and 16th business days of each month.¹⁶ (N.B. This report is published on these dates as specified in rule 46.4.1. Accordingly the information required by rule 53.2 will also be published in this report on these dates (i.e. in advance of the timeframe specified in rule 53.2).) 2. For each consumption period, allocation stage and gas gate the report must show at least: <ul style="list-style-type: none"> • the monthly total injection quantity; and • both the monthly total quantity and the rolling total annual quantity of UFG and UFG percentage; and • the monthly UFG factor; and • the monthly total allocations for each retailer. 3. This report must show all retailers' allocations. 4. Information must be published for every allocated gas gate. 	
Data inputs:	
Consumption period.	
Allocation stage.	
Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 for the consumption period and allocation stage being processed.	
Latest allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 for the preceding 11 months.	
Consumption submission information provided in GAS040, GAS050 and GAS060 for allocation	

¹⁶ Note, that until 30 June 2009, for each initial allocation, monthly UFG factors must be provided by 1200 hours (rather 0800 hours) on the 5th business day of the month – see *Gas (Downstream Reconciliation) Rules 2008 (Exemption DR08-28-T: Allocation Agent Monthly UFG Factor) Notice 2008* and *Gas (Downstream Reconciliation) Rules 2008 (Urgent Exemption DR09-09-S: Injection Information) Notice 2009*

groups 1, 2, 3, 4, 5, and 6.

Injection information from TSOs for the appropriate 12 consumption periods and latest allocation stages (GAS030).

AUFG factors per gas gate and gas year (output from GAU030).

MUFG factors per gas gate for the consumption period and allocation stage (output from GAU050).

Gas gate publication exemption list.

Processing:

The allocation agent:

- formats the report according to the details given in the data outputs section below.

Data outputs:

Summary UFG and allocation report format:

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR070"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR"
Recipient	Char (4)	M	"GASW"
Report Run Date	DD/MM/YYYY	M	Date the report is created
Report Run Time	HH:MM:SS	M	Time the report is created
Number of Records	Num (6)	M	Total number of detail records in report.

Description	Type	M/O	Calculations
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Consumption period
Allocation Stage	Char (1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Gas Gate	Char (8)	M	Gas gate code.
Network Code	Char(4)	M	Valid network code at the gas gate.
Gas Gate Injected Quantity Total for Consumption Period	Num (10.3)	M	Total injected quantity at gas gate in GJ for the gas gate, consumption period and allocation stage submitted via GAS030.

Gas Gate Annual UFG Factor	Num (5.4)	M	Annual UFG factor (AUGF) used for allocation groups 1 and 2 for the gas gate, consumption period and allocation stage output from GAU030.
Gas Gate Monthly UFG Factor	Num (5.6)	M	Monthly UFG factor (MUGF) used for allocation groups 3 to 6 for the gas gate, consumption period and allocation stage output from GAU050.
Gas Gate UFG Total for Month	Num (10.3)	M	Total UFG expressed in GJ for the gas gate, consumption period and allocation stage, being the difference between the total injection quantity and total consumption information quantities at the gas gate for the consumption period and allocation stage.
Gas Gate UFG % for Month	Num (3.2) (percentage)	M	This is the gas gate UFG total for the current month (see above) expressed as a % of the total gas gate injection quantity for the gas gate, consumption period and allocation stage.
Gas Gate UFG Total for Previous 12 Months	Num (10.3)	M	The is the sum of the gas gate UFG totals of each of the previous 12 months, up to and including the consumption period, expressed in GJ. See Gas Gate UFG Total for Month above but the aggregation is of the 12 previous months.
Gas Gate UFG % for Previous 12 Months	Num (3.2) (percentage)	M	This is the gas gate UFG total for previous 12 months (see above) expressed as a % of the total gas gate injection quantity of the previous 12 months.
Allocation Participant	Char (4)	M	Retailer code of the allocated quantity being aggregated.
Retailer Allocation Results for Month	Num (10.3)	M	Quantity allocated to retailer in GJ in the consumption period and allocation stage for the gas gate. Obtained from the allocated quantities output from GAU040, GAU060 and GAU080.

Example	HDR, GAR070,ALLA,APAR,GASW,02/11/2008,12:32:02,2 DET,10/2008,I,TWA35610,NETA,158976.321,1.0153,1.32,148.369,2.59,63.241, 0.36,RETA,48.325 DET,10/2008,I,TWA35610,NETA,158976.321,1.0153,1.32,148.369,2.59,63.241, 0.36,RETB,26.649 Etc
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Sub-process:	GAR080 Billed versus submission quantities comparison
Process:	Generate reports
Destination:	Public website
Rule references:	52.2.3 (see also 31, 32, 33)
Dependencies:	
	<hr/>

Description:

This report compares the quantities of gas billed to consumers with the quantities submitted as consumption information over a 12 month period.
Billing information lags consumption information by one month.
This report is for every allocated gas gate.

Business requirements:

1. The allocation agent must compare, for each retailer, the total quantities billed over the previous 12 consumption periods with the associated consumption information (i.e. the consumption information submitted to the allocation agent in the previous 13th through to the previous 2nd consumption periods), by 1700 hours on the **13th business day** of each month and publish the results by 0800 hours on the **14th business day**.
2. The allocation agent must compare:
 - the sum of the quantities billed for the previous 12 consumption periods, provided by each retailer for each gas gate via GAS070 (i.e. the sum of the "actual sales" for the previous 12 "months billed" in the GAS070 file) (rule 52.2.1); with
 - the sum of the consumption information associated with the quantities billed, provided by each retailer for each gas gate (rules 31 to 33).

E.g. On the 13th business day in January 2010, this report will compare the sum of the quantities billed (provided in GAS070) for the months of January 2009 through to December 2009 inclusive, with the sum of the consumption information submitted for the consumption periods December 2008 through to November 2009. The "Last Consumption Period" detailed in the report will be November 2009.
3. The allocation agent must publish the results of the comparison by 0800 hours on the 14th business day of each month.
4. This report must show all retailers' results.
5. Information must be published for every allocated gas gate.

Data inputs:

Consumption period.
Allocation stage.
Submission information for the each consumption period with the latest allocation stage for the relevant 12 months (GAS040, GAS050, GAS060).
Valid as-billed information (from GAS070) for the relevant 12 months.
Gas gate publication exemption list.

Processing:

The allocation agent:

- formats the report using the calculations detailed in the data outputs section below.

Data outputs:

Rolling annual reconciliation report format:

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR080"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR"
Recipient	Char (4)	M	"GASW"
Report Run Date	DD/MM/YYYY	M	Date the report is created
Report Run Time	HH:MM:SS	M	Time the report is created
Number of Records	Num (6)	M	Total number of detail records in report.

Description	Type	M/O	Rule
Detail Record Type	Char (3)	M	"DET"
Last Consumption Period Billed	MM/YYYY	M	Last consumption period to which the data in this report applies (i.e. the month prior to the previous consumption period)
Allocation Participant	Char (4)	M	Valid code for participant
Gas Gate	Char (8)	M	Gas gate code as determined by Gas Industry Co
Network Code	Char (4)	M	Valid network code at the gas gate
Actual Sales (GJ)	Num (10.3)	M	Sum of the actual sales billed for the relevant 12 months for the retailer and gas gate, in GJ, from GAS070

Description	Type	M/O	Rule
Consumption (GJ)	Num (10.3)	M	Sum of the latest consumption information provided by the retailer to the allocation agent for the 12 consumption periods commencing one month earlier than the first month billed, for the retailer and gas gate, in GJ. (See GAS040, GAS050 and GAS060)
Difference Between Sales and Submitted Consumption Data	Num (10.3)	M	Actual Sales (GJ) minus Consumption (GJ). See above.
Sales/Submission (%)	Num (3.2) (percentage)	M	Actual Sales divided by Consumption (see above), expressed in percentage terms (and rounded).

Example (Annual reconciliation):	HDR,GAR080,ALLA,APAR,GASW,19/11/2008,12:32:02,2 DET,09/2008,RETA,TWA35610,NETA,36224.232,35178.195,1046.037,102.97 DET,09/2008,RETA,HST05210,NETA,24595.726,24695.264,-99.538,99.6
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Sub-process:	GAR090 Annual UFG Factor
Process:	Generate reports
Destination:	Public website
Rule references:	46.4.2, 79.4
Dependencies:	
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Description:	
<p>The allocation agent determines and publishes the annual UFG factor which will apply for each new gas year commencing 1st October.</p> <p>This report is for every allocated gas gate.</p>	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must publish, by the 1st business day in July of each year, the annual UFG factor which will apply to the next gas year. N.B. Special transition provisions apply for the next 2 years (2008-2010) and different publishing timeframes – see rule 79.4. 2. This report must show the AUFG factor per gas gate for the new year commencing 1st October following and any indicators showing that the AUFG factor was determined by Gas Industry Co. 3. Information must be published for every allocated gas gate. 	
Data inputs:	
<p>Gas year being processed.</p> <p>AUFG factors and any indicators per gas gate for the new gas year (output in GAU030).</p> <p>Gas gate publication exemption list.</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • formats the report as shown in the section below. 	
Data outputs:	
Annual Factors report:	

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR090"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR"
Recipient	Char (4)	M	"GASW"
Report Run Date	DD/MM/YYYY	M	Date the report is created
Report Run Time	HH:MM:SS	M	Time the report is created
Number of Records	Num (6)	M	Total number of detail records in report.

Description	Type	M/O	Calculations
Detail Record Type	Char (3)	M	"DET"
Gas Year Start Date	DD/MM/YYYY	M	01/10/YYYY where YYYY is the relevant year
Gas Year End Date	DD/MM/YYYY	M	30/09/YYYY where YYYY is the relevant year
Gas Gate	Char (8)	M	Gas gate code as determined by Gas Industry Co
Network Code	Char (4)	M	Valid network code at the gas gate
Annual UFG Factor	Num (5.4)	M	Annual UFG Factor calculated in GAU030
Assessment Indicator	Char(1)	O	"Y" for Yes if factor was assessed by Gas Industry Co, or blank

Example (Annual UFG Factor):	HDR,GAR090,ALLA,APAR,GASW,01/07/2008,12:32:02,2 DET,01/10/2008,30/09/2009,TWA35610,NETA,3.1 DET,01/10/2008,30/09/2009,HST05210,NETA,1.345,Y
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Sub-process:	GAR100 Meter Reading Frequency Compliance
Process:	Generate reports
Destination:	Gas Industry Co
Rule references:	Related to 40.2
Dependencies:	GAS080
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Description:	
The allocation agent produces a meter reading frequency compliance report for Gas Industry Co by the end of each month which analyses information provided by retailers for the previous 12 consumption periods.	
Business requirements:	
1. The allocation agent must deliver to Gas Industry Co a meter reading frequency report by the last business day of the consumption period.	
Data inputs:	
Meter Reading Frequency reports for the past 12 consumption periods (including the current consumption period) received via GAS080.	

Processing:	
The allocation agent:	
<ul style="list-style-type: none"> extracts the rolling 4 month validated register reading percentage and the 12 month validated register reading percentage input by each allocation participant via GAS080 for each of the 12 previous consumption periods. assigns an asterisk to the percentage if the percentage value is less than the appropriate threshold. The threshold for the 4 month percentage is 90%. The threshold for the 12 month percentage is 100%. formats the report as shown in the section below with an extra line under the Header with column headings to enable printing of the report using a spreadsheet. 	

Data outputs:	
Meter Reading Frequency Compliance report, sorted by allocation participant and rolling month:	

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR100"

Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR" – all participants
Recipient	Char (4)	M	"GICX" – Gas Industry Co
Report Run Date	DD/MM/YYYY	M	Date the report is run.
Report Run Time	HH:MM:SS	M	Time the report is run.
Number of Records	Num (6)	M	Total number of detail records in report.

Next row after the Header to show the column headings for example: Record Type,Retailer,Rolling Month,October 2008,November 2008,December 2008,January 2009,February 2009,March 2009,April 2009,May 2009,June 2009,July 2009, August 2009,September 2009.

Then for all subsequent rows:

Description	Type	M/O	Calculations
Detail Record Type	Char (3)	M	"DET"
Allocation Participant	Char (4)	M	Directly from data input in GAS080.
Rolling month	Char 8		"4 Month" or "12 Month"
Month - Consumption Period minus 11	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 11 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 10	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 10 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 9	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 9 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 8	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 8 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 7	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 7 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 6	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 6 th month, with asterisk if value less than relevant 4 month or 12 month threshold

Description	Type	M/O	Calculations
Month - Consumption Period minus 5	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 5 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 4	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 4 th month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 3	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 3 rd month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 2	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous 2 nd month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Consumption Period minus 1	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the previous month, with asterisk if value less than relevant 4 month or 12 month threshold
Month - Current Consumption Period	Num(3.2)*	M	Relevant 4 or 12 month validated register reading percentage from data input in GAS080 for the current month, with asterisk if value less than relevant 4 month or 12 month threshold

Example (Meter Read Frequency Data):	HDR,GAR100,ALLA,APAR,GICX,28/11/2008,12:32:02,4 Record Type,Retailer,Rolling Month,October 2008,November 2008,December 2008,January 2009,February 2009,March 2009,April 2009,May 2009,June 2009,July 2009, August 2009,September 2009 DET,RETA,4 Month,86.3*,85.6*,87.8*,88.6*,90.02,91.56,89.99*,86.1*,91.8,91.3,98.5,89.6* DET,RETA,12 Month,96.3*,95.6*,97.8*,98.6*,99.02*,91.56*,99.99*,96.1*,91.8*,91.3*,100,100 DET,RETB,4 Month,86.3*,85.6*,87.8*,88.6*,90.02,91.56,89.99*,86.1*,91.8,91.3,98.5,89.6* DET,RETB,12 Month,96.3*,95.6*,97.8*,98.6*,99.02*,91.56*,99.99*,96.1*,91.8*,91.3*,100,100
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Exceptions:

1. If values are missing for any month, zeroes will be shown without an asterisk – assumption being that the retailer did not trade in that month and any missing submissions will have been picked up and reported in GAS080.

Sub-process:	GAR110 Percentage of historical estimates
Process:	Generate reports
Destination:	Gas Industry Co
Rule references:	Related to 40.1
Dependencies:	GAU040, GAU060, GAU080
	<hr/>
Description:	
A report is required by Gas Industry Co to show the proportion of historical estimates in the initial submissions and subsequent revisions.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must deliver the analysis to Gas Industry Co by the first business day of the month, after the submissions have been processed and only for consumption periods that have had initial, interim or final (or special) allocation runs. (N.B. This report is currently published for each allocation on the dates and times specified in GAR060 i.e. in advance of the required timeframe). 2. The allocation agent must generate separate reports for each consumption period. <p>N.B. Where the allocation agent has estimated consumption, the quantity of historical estimates will be zero.</p>	
Data inputs:	
Submission information for all allocation groups except 1 and 2 (GAS040, GAS050 and GAS060).	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • extracts all consumption submission information, i.e. that which was used in each allocation stage, for each consumption period processed (in the previous month) with allocation stages of initial, interim or final (or special), ignoring allocation groups 1 and 2; • aggregates the submitted consumption by consumption period, allocation stage, gas gate and retailer; • formats the report as shown below. 	
Data outputs:	
Proportion of historical estimates report:	

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR110"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR" – all participants
Recipient	Char (4)	M	"GICX" – Gas Industry Co
Report Run Date	DD/MM/YYYY	M	Date the report is run.
Report Run Time	HH:MM:SS	M	Time the report is run.
Number of Records	Num (6)	M	Total number of detail records in report.

Description	Type	M/O	Calculations
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which the information applies
Allocation Stage	Char (1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Allocation Participant	Char (4)	M	Retailer from submissions
Gas Gate	Char (8)	M	Gas gate from submissions
Network Code	Char (4)	M	Valid network code of gas gate
Total monthly submission volume (GJ) in this allocation stage	Num (10.3)	M	Consumption submitted aggregated by consumption period, allocation stage, retailer and gas gate.
Total monthly historical estimate (GJ) in this allocation stage	Num (10.3)	M	Quantity of historical estimate submitted aggregated by consumption period, allocation stage, retailer and gas gate.
Percentage of historical estimate in this allocation stage	Num (4.2)	M	Calculated from values above.
Percentage variation of this revision's submission volume against the volume in the initial allocation stage	Num (4.2)	M	Calculated. Percentage increase or decrease. Zero for initial allocation stage.
Percentage variation of this revision's historical estimate volume against the historical estimate volume in the initial allocation stage	Num (4.2)	M	Calculated. Percentage increase or decrease. Zero for initial allocation stage.

Example (Proportion of historical estimates):	HDR,GAR110,ALLA,APAR,GICX,02/11/2009,12:32:02,2 DET,10/2008,I, RETA,TWA35610,NETA,5,1000.000,600.000,60.00,0,0 DET,10/2008,M, RETA,TWA35610,NETA,5,900.000,450.000,50.00,-10.0,-25.0
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Sub-process:	GAR120 Incidents
Process:	Generate reports
Destination:	Gas Industry Co
Rule references:	None
Dependencies:	
<hr/>	
Description:	
The allocation agent reports rule breach incidents to Gas Industry Co.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent is must provide a report in respect of any alleged breach of the Rules and, to the extent possible, within 5 business days of becoming aware of the alleged breach. 2. The allocation agent is must provide a report in respect of any breach by the allocation agent of its obligations under the Rules within 2 business days of the service provider becoming aware of that breach. 3. The allocation agent must agree with Gas Industry Co on the mechanism used to forward the report. 	
Data inputs:	
Occurrences of rule breaches: type of rule breach, dates, times, participant and details.	
Processing:	
The allocation agent: <ul style="list-style-type: none"> • collect incidents and report to Gas Industry Co using the agreed mechanism. 	
Data outputs:	
Incident report.	

Sub-process:	GAR130 Allocation Information to Transmission System Owners
Process:	Generate reports
Destination:	Transmission System Owners
Rule references:	None
Dependencies:	
<hr/>	
Description:	
Each month the allocation agent provides TSOs with initial, interim and final allocation information for the purpose of upstream balancing and invoicing.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must generate allocation information for TSOs, which includes contract IDs. 2. The service provider must agree a mechanism with TSOs for the transfer of this information in an efficient manner. 3. The OATIS file format (see below) must be used as the default format for all TSOs. 4. The allocation agent must generate one file per gas gate. 5. For OATIS-based transmission systems, the allocation agent must have reached agreement with the relevant TSO on the terms of use and have been allocated login details. 	
Data inputs:	
<p>Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 output from GAU040, GAU60, GAU080, and GAU100.</p> <p>Consumption period being processed.</p> <p>Allocation stage being processed.</p> <p>TSO translation tables – gas gates and allocation participants.</p>	
Processing:	
<p>The allocation agent:</p> <ul style="list-style-type: none"> • aggregates the allocation quantities by Welded Point ID, Shipper ID, Contract ID and Day and outputs it in the OATIS file format. Welded Point ID and the Shipper ID are obtained from the translation tables using the gas gate and allocation participant from the allocation information as keys; • one file for each Welded Point; • finds the TSO of each Welded Point ID and produces one zip file for each TSO, containing the appropriate files; 	

- uploads into OATIS the zip file(s) for the TSO(s) provided for on OATIS;
- delivers the other files to the appropriate TSOs.

N.B. OATIS accepts multiple uploads of single or multiple files. Only the latest information is used by OATIS.

OATIS does not require a specific file naming convention.

Data outputs:

Each output file is a report with titles, sub-headings, data rows and a row of totals.

Each file contains information for one Welded Point ID.

Each file is in .CSV format.

Currently the mechanism for delivering this information to Vector is via an upload facility on the OATIS website.

The following format is for each individual file which is for one Welded Point ID.

Attribute	Format	Validation rules
Header - Row 1		Must be "Welded Point ID,Date,Shipper ID,Contract ID,Delivered Energy".
Detail rows from row 2 onwards:		
Welded Point ID	Char(8)	Welded Point ID from the gas gate translation table. There can only be one such code in each file.
Date	dd/mm/yyyy	Valid date. There must be no missing days in the consumption period for each retailer and Contract ID unless the contract commenced or ceased trading during the month when there could be missing days.
Shipper ID	Char(4)	Shipper ID from the allocation participant translation table. Each file contains all shippers with allocation information at this Welded Point ID.
Contract ID	Char(4)	Valid Contract ID for retailer for Date. It is possible for a retailer to have more than one Contract ID at a gas gate.
Delivered Energy	Num(10.3)	Aggregated allocated quantities. A positive or negative number with leading and trailing zeroes omitted.
One final trailing totals row:		
	Total,,,,<Num(10.3)>	Must be "Total,,,,," followed by a number that is the total of all the Delivered Energy values in the file.
		Blank row after totals row

Example

Welded Point ID,Date,Shipper ID,Contract ID,Delivered Energy

BEL24510,1/12/2007,RETA,1109,1566.114
BEL24510,2/12/2007,RETA,1109,940.898
BEL24510,3/12/2007,RETA,1109,3237.515
BEL24510,4/12/2007,RETA,1109,3573.763
BEL24510,5/12/2007,RETA,1109,3370.984
BEL24510,6/12/2007,RETA,1109,3796.701
BEL24510,7/12/2007,RETA,1109,3718.371
BEL24510,8/12/2007,RETA,1109,1730.741
BEL24510,9/12/2007,RETA,1109,1033.937
BEL24510,10/12/2007,RETA,1109,2715.397
BEL24510,11/12/2007,RETA,1109,3105.801
BEL24510,12/12/2007,RETA,1109,3654.433
BEL24510,13/12/2007,RETA,1109,3004.631
BEL24510,14/12/2007,RETA,1109,2961.895
BEL24510,15/12/2007,RETA,1109,1892.876
BEL24510,16/12/2007,RETA,1109,1307.52
BEL24510,17/12/2007,RETA,1109,2822.973
BEL24510,18/12/2007,RETA,1109,3038.637
BEL24510,19/12/2007,RETA,1109,3189.439
BEL24510,20/12/2007,RETA,1109,3052.645
BEL24510,21/12/2007,RETA,1109,2626.138
BEL24510,22/12/2007,RETA,1109,1725.997
BEL24510,23/12/2007,RETA,1109,1050.674
BEL24510,24/12/2007,RETA,1109,842.962
BEL24510,25/12/2007,RETA,1109,289.836
BEL24510,26/12/2007,RETA,1109,533.919
BEL24510,27/12/2007,RETA,1109,1279.312
BEL24510,28/12/2007,RETA,1109,1010.566
BEL24510,29/12/2007,RETA,1109,692.805
BEL24510,30/12/2007,RETA,1109,562.912
BEL24510,31/12/2007,RETA,1109,677.335
BEL24510,1/12/2007,RETB,1120,671.192
BEL24510,2/12/2007,RETB,1120,403.242
BEL24510,3/12/2007,RETB,1120,1387.506
BEL24510,4/12/2007,RETB,1120,1531.613
BEL24510,5/12/2007,RETB,1120,1444.707
BEL24510,6/12/2007,RETB,1120,1627.158
BEL24510,7/12/2007,RETB,1120,1593.588
BEL24510,8/12/2007,RETB,1120,741.746
BEL24510,9/12/2007,RETB,1120,443.116
BEL24510,10/12/2007,RETB,1120,1163.742
BEL24510,11/12/2007,RETB,1120,1331.058
BEL24510,12/12/2007,RETB,1120,1566.186
BEL24510,13/12/2007,RETB,1120,1287.699
BEL24510,14/12/2007,RETB,1120,1269.384
BEL24510,15/12/2007,RETB,1120,811.232
BEL24510,16/12/2007,RETB,1120,560.366
BEL24510,17/12/2007,RETB,1120,1209.846
BEL24510,18/12/2007,RETB,1120,1302.273
BEL24510,19/12/2007,RETB,1120,1366.902
BEL24510,20/12/2007,RETB,1120,1308.277
BEL24510,21/12/2007,RETB,1120,1125.488
BEL24510,22/12/2007,RETB,1120,739.713
BEL24510,23/12/2007,RETB,1120,450.289
BEL24510,24/12/2007,RETB,1120,361.269
BEL24510,25/12/2007,RETB,1120,124.216
BEL24510,26/12/2007,RETB,1120,228.822
BEL24510,27/12/2007,RETB,1120,548.276
BEL24510,28/12/2007,RETB,1120,433.1
BEL24510,29/12/2007,RETB,1120,296.916
BEL24510,30/12/2007,RETB,1120,241.248
BEL24510,31/12/2007,RETB,1120,290.286
Total,,,,92868.183

Exceptions:

1. If OATIS or other TSOs' systems reject a file due to validation errors, the allocation agent must correct and reload the information. Any issues should be raised with the appropriate TSO for resolution.

Sub-process:	GAR140 Provide Gas Registry with gas gate information
Process:	Generate reports
Destination:	Gas Registry, allocation participants
Rule references:	None
Dependencies:	
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Description:	
The allocation agent maintains the gas gate reference information and provides the Gas Registry with the latest information every time the information is updated.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must agree a transfer mechanism with the Gas Registry service provider for the transfer of this information in a timely manner. This can be by email. 2. Only changes need be notified i.e. the whole file does not need to be sent. 3. The Gas Registry must be notified immediately after any change is made, except when changes relate solely to the responsible TSO, which is not required by the Gas Registry. 4. The information must also be made available to allocation participants to view and download from the allocation system. 	
Data inputs:	
Gas gate information.	

Description	Type	M/O	Validation
Gas Gate Code	Char (8)	M	Unique code.
Gas Gate Name	Char (32)	M	Location details.
Gas Gate Type	Char (2)	M	GN – gas gate connected network, EN – embedded gas network, GD – direct consumer, ND – <i>notional delivery point</i> .
Network Code	Char (4)	M	Valid network code at the gas gate. For gas gates of type GD this will be the allocation code of the consumer.
Responsible TSO	Char (4)	M	TSO of the gas gate.
Parent Gas Gate Code	Char (8)	M/O	Required if gas gate type is EN.
Notional Delivery Point	Char (8)	O	Required for those gas gates that are grouped under a <i>notional delivery</i>

Description	Type	M/O	Validation
Code			<i>point</i> . The <i>notional delivery point</i> code must itself be of gas gate type ND.
Notice Date	DD/MM/YYYY	M	Date when notice was given that this gas gate was to commence.
Start Date	DD/MM/YYYY	M	Date the information in this record became applicable.
End Date	DD/MM/YYYY	M	Date the information in this record ceased to be applicable.
Audit Input Date/Time	DD/MM/YYYY HH:MM:SS	M	
Input By (User Name)	Char (8)	M	
Audit Deletion Date/Time	DD/MM/YYYY HH:MM:SS	O	
Deleted By (User Name)	Char (8)	O	

Processing:
<p>The allocation agent:</p> <ul style="list-style-type: none"> • Maintains, validates, stores and displays the information with a date and time stamp; • Outputs changes to the Gas Registry using agreed mechanism after every relevant update.
Data outputs:
Updated gas gate reference information.

Sub-process:	GAR150 Allocation Changes
Process:	Generate reports
Destination:	Transmission System Owners and Retailers
Rule references:	None
Dependencies:	GAU040, GAU060, GAU080

Description:	
A report is required by TSOs after each allocation following the initial allocation, which identifies those gas gates with allocation quantities that have changed or are new since the last allocation. ¹⁷	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must produce this allocation changes report for each allocation following the initial allocation (i.e. the report is generated immediately after amended initial allocations; immediately after interim and amended interim allocations; immediately after final and amended final allocations; and immediately after special allocations). 2. The report is to identify those gas gates with allocation quantities that have changed since the last allocation (e.g. amended initial allocation is compared against initial allocation or against special allocation, whichever is the later; final allocation is compared against interim allocation or against amended interim allocation or against special allocation, whichever is the later). 	
Data inputs:	
Consumption period and allocation stage.	
Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 for the current consumption period and current allocation stage (output from GAU040, GAU060, GAU080 and GAU100).	
Allocated quantities for allocation groups 1, 2, 3, 4, 5 and 6 for the current consumption period and the immediately prior published allocation stage (output from GAU040, GAU060, GAU080 and GAU100).	
Injection information from TSOs for the appropriate consumption period (GAS030).	
Processing:	
The allocation agent:	

¹⁷ Note that this GAR150 report was developed by the allocation agent at the request of Vector, Contact Energy, Genesis Energy and Mighty River Power. Those parties agreed that this report is to be generated for, and provided to, all transmission system owners and retailers. Accordingly, this GAR150 report is included as part of the functional specification of the allocation system.

- compares the daily allocated quantities for a given (current) published allocation run with the daily allocated quantities for a (the) previous published allocation run;
- formats the report as shown below.

Data outputs:

Allocation changes report:

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR150"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR" – all participants
Recipient	Char (4)	M	Valid code of relevant participant
Previous Allocation Run	Char (5 / 7)	M	"Initial", "Interim", "Final", "Special"
Current Allocation Run	Char (5 / 7)	M	"Initial", "Interim", "Final", "Special"
Report Run Date	DD/MM/YYYY	M	Date the report is run
Report Run Time	HH:MM:SS	M	Time the report is run
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Rule
Consumption Period	DD/MM/YYYY	M	Calendar month to which the information applies
Gas Gate	Char (8)	M	Gas gate with revised allocation quantities
Injection Quantity Changed?	Char (2 / 3)	M	"Yes" if total monthly injection quantity has changed and "No" if total monthly injection quantity unchanged
Previous Injection Quantity (GJ)	Num (10.3)	M	Injection quantity provided by TSO for previous allocation run
Current Injection Quantity (GJ)	Num (10.3)	M	Injection quantity provided by TSO for current allocation run

Example (Allocation changes):

HDR,GAR150,ALLA,APAR,GICX,Initial,Initial,10/11/2008,11:32:02,3
 DET,10/2008,EGC30701,Yes,756.123,756.456
 DET,10/2008,GMM08001,Yes,230.000,267.246
 DET,10/2008,KAP12901,No

Sub-process:	GAR160 Allocated Quantities Summary
Process:	Generate reports
Destination:	Gas Industry Co
Rule references:	None
Dependencies:	GAR070
<hr/>	
Description:	
A report is required by Gas Industry Co to show the total allocated quantities per retailer across all gas gates allocated in each initial allocation.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must produce this summary allocated quantities report for each initial allocation by 1200 hours (midday) on the 5th business day of each month. 2. For each consumption period being processed, the report must show the total allocated quantities per retailer across all gas gates allocated in the initial allocation. 	
Data inputs:	
Allocated quantities per retailer per gas gate (GAR070).	
Processing:	
The allocation agent: <ul style="list-style-type: none"> • extracts the allocated quantities information and aggregates it by retailer; • formats the report as shown below. 	
Data outputs:	
Allocated quantities summary report:	

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR160"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR" – all participants
Recipient	Char (4)	M	"GICX" – Gas Industry Co
Report Run Date	DD/MM/YYYY	M	Date the report is run

Report Run Time	HH:MM:SS	M	Time the report is run
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Rule
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which the information applies
Allocation Stage	Char (1)	M	I – Initial Allocation
Allocation Participant	Char (4)	M	Retailer code of the allocated quantity being aggregated
Total Quantity (GJ) in this allocation stage	Num (10.3)	M	Aggregated allocation quantity

Example (Summary allocation results):	HDR,GAR160,ALLA,APAR,GICX,02/11/2009,12:32:02,3 DET,10/2008,I,RETA,756.123 DET,10/2008,I,RETB,230.000 DET,10/2008,I,RETC,83.556
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Sub-process:	GAR170 Submissions Summary
Process:	Generate reports
Destination:	Gas Industry Co
Rule references:	None
Dependencies:	GAS030, GAS040, GAS050, GAS060
<hr/>	
Description:	
A report is required by Gas Industry Co to show the total injection and consumption quantities submitted (or estimated) per gas gate.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must produce this summary report for each initial, interim and final allocation performed during the month by 0800 hours on the 5th, 11th and 16th business days of each month. 2. The allocation agent must produce this summary report automatically for each special allocation performed. 3. For each consumption period and allocation stage being processed, the report must show the total injection quantity submitted or estimated by the allocation agent per allocated gas gate. If any of the quantities contain estimates then the quantity must be indicated as such. 4. For each consumption period and allocation stage being processed, the report must show the total consumption quantities submitted or estimated by the allocation agent per allocated gas gate, retailer and allocation group and also the total consumption quantities submitted or estimated by the allocation agent aggregated per allocated gas gate and retailer. If any of the quantities contain estimates then the quantity must be indicated as such. 5. The gas gates should be aggregated to the notional delivery point level (i.e. be at the same level as the GAR070 report). 	
Data inputs:	
Injection submission information from TSOs (GAS030).	
Consumption submission information for all allocation groups (GAS040, GAS050 and GAS060).	
Processing:	
The allocation agent: <ul style="list-style-type: none"> • extracts the injection submission information and aggregates the total delivered energy by consumption period, allocation stage, gas gate and TSO; • extracts the consumption submission information and aggregates the consumption quantity by consumption period, allocation stage, gas gate, retailer and allocation 	

group;

- extracts the consumption submission information and aggregates the consumption quantity by consumption period, allocation stage, gas gate and retailer;
- aggregates any gas gates involved in notional delivery points at the notional delivery point level for both injection and consumption;
- formats the report as shown below.

Data outputs:

Submissions summary report:

Description	Type	M/O	Calculations
Header Record Type	Char (3)	M	"HDR"
File Type	Char (6)	M	"GAR170"
Sender	Char (4)	M	"ALLA"
Allocation Participant	Char (4)	M	"APAR" – all participants
Recipient	Char (4)	M	"GICX" – Gas Industry Co
Report Run Date	DD/MM/YYYY	M	Date the report is run
Report Run Time	HH:MM:SS	M	Time the report is run
Number of Records	Num (6)	M	Total number of detail records in report

Description	Type	M/O	Rule
Detail Record Type	Char (3)	M	"DET"
Consumption Period	MM/YYYY	M	Calendar month to which the information applies
Allocation Stage	Char (1)	M	I – Initial Allocation M – Interim Allocation F – Final Allocation S – Special Allocation
Network Code	Char (4)	M	Valid network code of gas gate
Gas Gate	Char (8)	M	Allocation gas gate
Allocation Participant	Char (4)	M	Relevant retailer for consumption submissions, or relevant TSO for injection information
Aggregation Level	Char (12)	M	For injection submissions "Injection" otherwise for consumption aggregated to the allocation group level "AllocGroup" <allocation group> otherwise "Retailer"

Total Quantity (GJ) in this allocation stage	Num (10.3)	M	Aggregated consumption or injection quantity at the relevant aggregation level
Estimate Indicator	Char (1)	O	"E" if estimated data in GAS050 submission file and/or allocation agent has estimated data in lieu of missing data from retailer or TSO, else blank

Example (Submissions summary):	HDR,GAR170,ALLA,APAR,GICX,02/11/2009,12:32:02,6 DET,10/2008,I,NETA,WVY23601,VCTX,Injection,1650.900,E DET,10/2008,I,NETA,WVY23601,RETA,AllocGroup 1,756.123,E DET,10/2008,I,NETA,WVY23601,RETA,AllocGroup 4,230.000 DET,10/2008,I,NETA,WVY23601,RETA,Retailer,986.123,E DET,10/2008,I,NETA,WVY23601,RETB,AllocGroup 4,83.556 DET,10/2008,I,NETA,WVY23601,RETB,Retailer,83.556
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Sub-process:	GAM010 Maintain Reference Data
Process:	Maintain data
Source:	Allocation agent
Destination:	Allocation participants
Rule references:	None
Dependencies:	GAM020, GAS010, GAS020, GAR140
	<hr/>

Description:

The allocation agent maintains the reference data used in the allocation process. Sources of reference data are allocation participants, Gas Industry Co and the Gas Registry.

Business requirements:

1. The allocation agent must maintain data and applicable dates for the following:
 - allocation participant code (4 character), full company name, their roles, start and end dates (valid roles are: retailer, distributor, transmission system owner (TSO), meter owner (N/A), Gas Industry Co, allocation agent);
 - gas gate information (see GAR140) with the addition of the metering type – unmetered or metered (information not required by the Gas Registry);
 - gas gate publication exemption list: A list of gas gates that have been granted exemptions from publication on the public website (GAR060 to GAR090);
 - retailer approved profiles (4 characters) i.e. a list of all profile codes (see GAS020) that can be used by retailers in their submissions;
 - retailer trader information i.e. the gas gates for retailers to use in their submission information;
 - retailer gas transmission contract ID details i.e. contract IDs for the three categories of gas transmission contract – VTC compliant TSA, non-VTC TSAs and supplementary agreement contract IDs, and either a list of their associated gas gates or ICP numbers;
 - allocation group codes – numeric 1 to 6.
 - information provided by Gas Industry Co in GAS010;
 - TSO translation tables. TSOs may each have gas gate codes and allocation participant codes that differ to those in the allocation system. Also some allocation participants use multiple codes in the submission process but the TSO only recognises one Shipper ID:
TSO gas gate translation table contains, per TSO:
 - TSO allocation participant code - char (4)
 - Gas gate code – char (8)
 - Network Code – char (4)
 - Welded Point ID – char (8)

Start Date

End Date

N.B. One Welded Point ID will contain quantities for multiple gas gates in instances where a Welded Point ID corresponds to a notional delivery point ID.

TSO allocation participant table includes:

TSO allocation participant code - char (4)

Allocation participant code - char (4)

Shipper ID - char (4)

Start Date

End Date

N.B. One Shipper ID can be associated with more than one allocation participant code.

2. Allocation participants must be able to check the information about them for accuracy.

Data inputs:

Reference information.

Processing:

The allocation agent:

- Inserts or updates reference data in the reference tables as appropriate.

Data outputs:

Updated reference tables.

Sub-process:	GAM020 Maintain register of profiles
Process:	Maintain data
Source:	Allocation Agent
Destination:	Allocation participants
Rule references:	54.1
Dependencies:	
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Description:	
The allocation agent maintains a register of approved static and dynamic deemed profiles. The register and its contents must be accessible by all allocation participants.	
Business requirements:	
<ol style="list-style-type: none"> 1. The allocation agent must record the following information for each approved profile: <ul style="list-style-type: none"> • profile code – char (4), used in submissions; • profile type – char (1), static or dynamic; • approval date – date the profile was approved by the allocation manager and the date from which it can be used in submissions; • submitted date – date profile was submitted to the allocation agent for approval; • expiry date – date from which the profile can no longer be used in submissions and is also the removal date (rule 62); • profile owner – char (4), valid allocation participant; 2. All profile data must be viewable and downloadable by allocation participants. 	
Data inputs:	
New approved profiles and profile amendments.	
Processing:	
The allocation agent: <ul style="list-style-type: none"> • inserts and updates profile register. 	
Data outputs:	
Updated profile register. Download of register contents in .CSV format.	