IMPACT & IMPLEMENTATION REPORT – SUMMARY SECTION
(For AEMO to complete and administer)

Issue Number	IN007/17		
Impacted Jurisdiction (s)	South Australia		
Proponent	Nandu Datar	Company	AEMO
Affected Gas Markets(s) ▪ Retail ▪ Wholesale ▪ Bulletin Board ▪ STTM	Retail Gas	Consultation process (Ordinary or Expedited)	Ordinary
Industry Consultative forum(s) used	GRCF	Date Industry Consultative forum(s)consultation concluded	27 March 2018
Short Description of change(s)	Removal of SA GRMS Intra-Day Reports as per Clause 215.		
Procedure(s) or Documentation impacted	Refer to documents listed in section 2 of this Impact and Implementation Report (IIR).		
Summary of the change(s)	Amend Clause 215 and 216 and related clauses 213, 214 and 217 of the SA Retail Market Procedures (RMP) to remove the obligation to provide these intra-day reports and make the necessary system changes to stop generating these reports.		
I&IR Prepared By	Nandu Datar	Approved By	Danny McGowan
Date I&IR published	11 April 2018	Date Consultation under 135EE or 135EF concludes	9 May 2018
Contact address for written responses	Nandu Datar, Australian Energy Market Operator, GPO Box 2008, Melbourne VIC 3001.		
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IMPACT & IMPLEMENTATION REPORT – DETAILED REPORT SECTION

CRITICAL EXAMINATION OF PROPOSAL	
1. Description of change(s) and reasons for change(s)	In the South Australia Retail Gas Market audit for 2016-2017, PwC (AEMO's appointed market auditor) identified that there were occasions when the intra-day reporting to participants did not comply with the requirements of the Retail Market Procedures (RMP). Clause 215 requires AEMO to make available the following to each user within a sub-network within 60 minutes after the end of the hour:

<p style="margin-left:2em">• The as-retrieved energy inflow data for each gate point for the hour</p>

<p style="margin-left:2em">• The as-retrieved energy inflow data aggregated across all gate-points.</p>

<p style="margin-left:2em">• The sub-network profiled forecast published by AEMO before the start of the gas day under clause 205, as adjusted from time to time under clause 216.</p>

When this does not occur AEMO is in breach of the SA Retail Market Procedures.

Following intra-day reports have been in place since the SA gas retail market started in 2005.

- GPENG - Gate Point Energy Inflow
- GPENGPROF - Gate Point Energy Profile
- ECA – Estimated Consumption Amount

Since that time, the market has matured and it is AEMO's view that Participants may no longer use the information in these intra-day reports.

In mid-2017 AEMO sought feedback from participants in relation to the criticality of delivery timelines and whether these SA intra-day reports are used by Users.

AEMO received responses from Origin Energy, Red/Lumo, AGL, Energy Australia, Simply Energy and Alinta. All responses indicated that they do not use these reports.

Based on the unanimous participant response, AEMO is proposing to amend Clause 215 of the RMP to remove the obligation to provide these intra-day reports and make the necessary system changes to stop generating these reports.

2. Reference documentation ▪ Procedure Reference ▪ GIP/Specification Pack Reference ▪ Other Reference	Retail Market Procedures (SA) – V11 Specification Pack Usage Guide - V6.6 Interface Control Document (ICD) - V4.6
3. The high level details of the change(s) to the existing Procedures This includes: ▪ A comparison of the existing operation of the Procedures to the proposed change to the operation of the Procedures ▪ A marked up version of the Procedure change (see Attachment A)	Amend RMP SA to remove, • Clause 215 – AEMO's Intra-Day Reporting • Clause 214 - Pipeline operators to provide hourly data • Clause 216 - AEMO to recalculate profiled forecasts 30 minutes before the end of the third, sixth, ninth and twelfth hours of the gas day • Clause 213 – Network operator to provide intra-day withdrawal data • Clause 217 – If no hourly data provided • Definition of terms used in the clauses above Amend the ICD to remove, • Gate Point Energy Inflow (GPENG) • Gate Point Energy and Profile (GPENGPROF) • Estimated Consumption Amount (ECA) • User Profile Forecast (UPF) • Sub-network Profile Forecast (NPF) • Participant Profile Forecast (PPF)
4. Explanation regarding the order of magnitude of the change (eg: material, non-material or non-substantial)	This initiative will require minor RMP SA changes. The Gas Retail Market System (GRMS) will also require minor changes to stop generation of these reports. There is no impact on gas retail market participants. AEMO considers order of magnitude of this change as 'non-substantial'.

ASSESSMENT OF LIKELY EFFECT OF PROPOSAL

5. Overall Industry Cost / benefit (tangible / intangible / risk) analysis and/or cost estimates	This will ensure AEMO is compliant with the RMP SA. The gas retail market participants will no longer receive reports that are not being used. The Network Operator does not need to provide data for unused reports saving time and cost.

	Section 9 of this IIR describes the consultation steps undertaken by AEMO prior to issuing this IIR. During the PPC consultation period, no participant raised any concerns in relation to cost impacts to industry or the benefits identified. AEMO has therefore concluded that there are no significant costs to implement the proposed changes and that the above benefits should be realised over time.
6. The likely implementation effect of the change(s) on stakeholders (e.g. Industry or end-users)	Implementation of this initiative will not require any changes to the systems or processes for SA participants. AEMO will need to make minor system changes to remove generation of intra-day reports.
7. Testing requirements	AEMO (CGI) testing will ensure that intra-day reports are not generated.
8. AEMO's preliminary assessment of the proposal's compliance with section 135EB: - consistency with NGL and NGR, - regard to national gas objective - regard to any applicable access arrangements	Consistency with NGL and NGR: AEMO's view is that the proposed RMP changes are consistent with the NGL and cover matters that the RMP may deal with under Section 135EA(1) of the NGR. National Gas Objective *"Promote efficient investment in, and efficient operation and use of, natural gas services for the long term interests of consumers of natural gas with respect to price, quality, safety, reliability and security of supply of natural gas."* It is AEMO's view that the proposed changes described in this IIR will assist the efficient operation of the retail gas market, and are in the long-term interests of consumers as it promotes retail competition. Applicable Access Arrangements AEMO's view is that the proposed changes in this IIR are not in conflict with existing Access Arrangements. The Distributor did not raise concerns with the proposed amendments in relation to their Access Arrangement.
9. Consultation Forum Outcomes (e.g. the conclusions made on the change(s) whether there was unanimous approval, any dissenting views)	On 6 March 2018 AEMO published on its website a Proposed Procedure Change (PPC) that recommended minor documentation changes as described in attachment A and B. Registered participants and interested stakeholders were invited to make submissions which closed on 27 March 2018. AEMO received submissions from APA/AGN, SeaGas, EPIC Energy, AGL, Origin Energy, and Red/Lumo supporting the proposal. APA/AGN's feedback requested AEMO to determine if intra-day reports related to clause 216 are used by the participants. AEMO documented this issue in a 'Discussion Paper' for participants to review and confirm to AEMO if the reports are used or not. The discussion paper presented AEMO's position to remove clause

| | 216, related clauses 213 and 217 and intra-day reports and indicated that 'no-response' from any participant will be considered as acceptance of AEMO's position. AEMO received responses from SEAGas, EPIC Energy and Red/Lumo supporting AEMO's position. |

RECOMMENDATION(S)	
10. Should the proposed Procedures be made, (with or without amendments)?	AEMO recommends that the changes be made as proposed in attachment A and B with amendments as per the consultation forum outcome (see item 9 above).
11. If applicable, a proposed effective date for the proposed change(s) to take effect and justification for that timeline.	Subject to all necessary approvals AEMO is targeting to implement this change on 29 June 2018. To achieve this AEMO proposes the following timeline: • Issue IIR on 11 April 2018 to GRCF and GWCF • Submissions on IIR close 9 May 2018 • AEMO decision 25 May 2018 • Effective date 29 June 2018.

ATTACHMENT A

Proposed changes: Retail Market Procedures – South Australia
Red strikeout means delete and
blue underline means insert

2.   **Definitions**

   "adjusted hourly sub-network profiled forecast" has the meaning given to it in clause 215(3)(c).

   "adjusted hourly user profiled forecast" means a forecast determined under clause 215(3)(b).

   "adjusted recalculated pipeline profiled forecast" means a forecast determined under clause 216(1)(b).

   "corrected pipeline profiled forecast" means the corrected forecast under clause 216(1)(c).

   "corrected sub-network profiled forecast" means the corrected forecast under clause 216(1)(c).

   "estimated consumption amount" is the amount calculated under clause 215(3).

   "hourly IM energy" has the meaning given to it in clause 215(3)(a).

   "hourly sub-network profiled forecast", in clause 215(3)(c) means the component for the hour of the *sub-network profiled forecast*.

   "hourly user profiled forecast" has the meaning given to it in clause 215.

   "remaining energy" is the amount calculated under clause 215(3)(a).

   "remaining energy amount" means the amount calculated under clause 215(3)(d).

Division 5.5.2 – There is no Division 5.5.2

Division 5.5.2 – During the gas day

213.   **There is no Clause 213**

213.   **Network operator to provide intra-day withdrawal data**

(1)   The objective of this clause 213 is to achieve as accurate a *pipeline profiled forecast* for a *sub-network* as is reasonably practicable, having regard to the compliance *costs* associated with this clause 213.

(2)   AEMO must from time to time consult with the *participants* in a *sub-network* as to:

(a)   which *interval-metered delivery points* in the *sub-network* should have *meter readings* conducted during a *gas day* from which an *actual value* is calculated; and

(b)   the frequency at which *meter readings* should be conducted for each *delivery point* identified under clause 213(2)(a),

in order to best achieve the objective set out in clause 213(1), then make a determination on the matters in this clause 213(2) and *notify* its determination to each *participant*.

(3)   A determination by AEMO under clause 213(2)(a) is limited to a maximum of forty-five of the largest *interval metered delivery points*.

(4)   The *network operator* of a *delivery point* determined under clause 213(2)(a) must procure the daily flow weighted average *heating value data* for the previous *gas day* (or a reasonable estimate of or substitute for that value determined by the *network operator* as a *reasonable and prudent person*) and *meter reading data* for the *delivery point* in accordance with the schedule determined under clause 213(2)(b), and must calculate the energy quantity of *gas* withdrawn at the *delivery point* in each hour since the start of the *gas day* and then provide each calculated energy quantity to AEMO within 40 minutes after the time specified for the *meter reading* in the schedule determined under clause 213(2).

214.   There is no Clause 214

214.   Pipeline operators to provide hourly data

For each *transmission pipeline* for each *sub-network* for each hour, the *pipeline operator* must give to AEMO within 30 minutes after the end of the hour the *as-retrieved* energy inflow data for the *gate point* for the hour.

215.   There is no Clause 215

215.   AEMO's intra-day reporting

(1)   For each *sub-network* for each hour, AEMO must within 60 minutes after the end of the hour make available to each *user* in the *sub-network* the following:

(a)   the *as-retrieved* energy inflow data for each *gate point* for the hour;

(b)   the *as-retrieved* energy inflow data aggregated across all *gate points*; and

(c)   the *sub-network profiled forecast* published by AEMO before the start of the *gas day* under clause 205, as adjusted from time to time under clause 216.

(2)   For each *user* for each *sub-network* for each hour, AEMO must within 60 minutes after the end of the hour, make available to the *user*:

    (a)   any data received in the preceding hour from the *network operator* under clause 213 in respect of one or more of the *user's interval-metered delivery points*; and

    (b)   the *user's estimated consumption amount* for the hour calculated under clause 215(3).

(3)   The *user's* **"estimated consumption amount"** for an hour is determined as follows:

    (a)   first calculate the **"remaining energy"** as follows:

$$RE = \sum EGP - \sum EQ$$

where:
RE	= the *remaining energy* for the *sub-network* for the hour;
EGP	= the *as-retrieved* energy inflow data for each *gate point* in the *sub-network* for the hour received by AEMO under clause 214; and
EQ	= for each *interval-metered delivery point* for which AEMO received data under clause 213, the energy quantity of *gas* withdrawn at the *interval-metered delivery point* for the hour (**"hourly IM energy"**),

    (b)   next, for each *user*, where AEMO has received data under clause 213 for the hour for one or more of a *user's interval-metered delivery points*, determine an **"adjusted hourly user profiled forecast"** as follows:

$$AHUPF = HUPF - \sum HIME$$

where:
AHUPF	= the *adjusted hourly user profiled forecast* for the *user* for the *sub-network* for the hour;
HUPF	= the **"hourly user profiled forecast"** for the *user* for the hour, which is the component for the hour of the *user's profiled forecast* calculated under clause 204 for the *sub-network*; and
HIME	= the *hourly IM energy* received under clause 213 for each of the *user's interval-metered delivery points* in the *sub-network*,

    (c)   next, determine an **"adjusted hourly sub-network profiled forecast"** as follows:

$$AHSPF = HSPF - \sum HIME$$

where:

AHSPF = the *adjusted hourly sub-network profiled forecast* for the *sub-network* for the hour;

HSPF = the **"hourly sub-network profiled forecast"** for the *sub-network* for the hour, which is the component for the hour of the *sub-network profiled forecast* calculated under clause 205; and

HIME = the *hourly IM energy* received under clause 213 for each *interval-metered delivery point* in the *sub-network*,

(d)   next, for each *user*, calculate the *user's* **"remaining energy amount"** as follows:

$$UREA = \frac{AHUPF}{AHSPF} \times RE$$

where:

UREA = the *user's remaining energy amount* for the hour for the *sub-network*;

AHUPF = the *adjusted hourly user profiled forecast* for the *user* for the *sub-network* for the hour calculated under clause 215(3)(b);

AHSPF = the *adjusted hourly sub-network profiled forecast* for the *sub-network* for the hour 215(3)(c); and

RE = the *remaining energy* for the *sub-network* for the hour calculated under clause 215(3)(a),

and

(e)   then, determine each *user's estimated consumption amount* as follows:

$$UECA = \sum HIME + UREA$$

where:

UECA = the *user's estimated consumption amount* for the hour for the *sub-network*;

HIME = the *hourly IM energy* received under clause 213 for each of the *user's interval-metered delivery points* in the *sub-network*; and

UREA = the *user's remaining energy amount* for the hour for the *sub-network* calculated under clause 215(3)(d).

216. There is no Clause 216

216. AEMO to recalculate profiled forecasts 30 minutes before the end of the third, sixth, ninth and twelfth hours of the gas day

(1) For each *sub-network* for each *gas day*, AEMO must within 30 minutes before the end of the third, sixth, ninth and twelfth hours of the *gas day*:

    (a) first, recalculate the following profiled forecasts, using the inputs most recently received and recorded, or generated and recorded, in the *AEMO information system*:

        (i) each *user profiled forecast*;

        (ii) the *sub-network profiled forecast*;

        (iii) each *shipper profiled forecast*; and

        (iv) each *pipeline profiled forecast*,

        each of which is a **"recalculated"** profiled forecast; and

    (b) next, compare the amount by which the aggregate *gas injections* into the *sub-network* for the *gas day* diverge from the *sub-network profiled forecast*, and determine whether it should adjust, and if so adjust, each *recalculated pipeline profiled forecast* so that it more appropriately corresponds to the apparent actual *gas injections* into the *sub-network* (**"adjusted recalculated pipeline profiled forecast"**); and

    (c) then, further adjust each *adjusted recalculated pipeline profiled forecast* (**"corrected pipeline profiled forecast"**) for the balance of the *gas day* to correct for the amount by which:

        (i) the amount of *gas injected* into the *sub-network* from the *transmission pipeline* in the *gas day* so far;

        is more or less than:

        (ii) what that amount would have been had the *adjusted recalculated pipeline profiled forecast* been used from the beginning of the *gas day*;

        and correct the *recalculated sub-network profiled forecast* accordingly (**"corrected sub-network profiled forecast"**); and

    (d) then, make available:

        (i) to each *user*, the *user's recalculated user profiled forecast*, the *recalculated forecast heating degree day* used in the *user's recalculated user profiled forecast* and the *corrected sub-network profiled forecast*;

        (ii) to the *network operator* for the *sub-network*, the *corrected sub-network profiled forecast* and the *recalculated forecast*

heating degree day used in the *recalculated user profiled forecasts* for the *sub-network*

(iii)   to each *shipper*, its *recalculated shipper profiled forecast*; and

(iv)   to each *pipeline operator*, its *corrected pipeline profiled forecast* and the *recalculated shipper profiled forecast* for each *shipper* on the *pipeline*.

217.   There is no Clause 217

217.   If no hourly data provided

If, for a *sub-network* for an hour, AEMO does not receive the data referred to in clause 214 from a *pipeline operator* in sufficient time for AEMO to comply with clauses 215 and 216, then for that hour, AEMO must use the data most recently provided under clause 214 for a previous hour in performing its obligations under clauses 215 and clause 216.

9.3.6 Gate Point Energy Inflow (GPENG)

9.3.6.1 Data flow Definition

The pipeline operator to provide the data estimation entity with hourly gate point energy inflow for each sub-network.

9.3.6.2 Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
GATE_POINT_ID	1
GAS_DAY	1
ENERGY_INFLOW_HR01	0-1
ENERGY_INFLOW_HR02	0-1
ENERGY_INFLOW_HR03	0-1
ENERGY_INFLOW_HR04	0-1
ENERGY_INFLOW_HR05	0-1
ENERGY_INFLOW_HR06	0-1
ENERGY_INFLOW_HR07	0-1
ENERGY_INFLOW_HR08	0-1
ENERGY_INFLOW_HR09	0-1
ENERGY_INFLOW_HR10	0-1
ENERGY_INFLOW_HR11	0-1
ENERGY_INFLOW_HR12	0-1
ENERGY_INFLOW_HR13	0-1
ENERGY_INFLOW_HR14	0-1
ENERGY_INFLOW_HR15	0-1
ENERGY_INFLOW_HR16	0-1
ENERGY_INFLOW_HR17	0-1
ENERGY_INFLOW_HR18	0-1
ENERGY_INFLOW_HR19	0-1
ENERGY_INFLOW_HR20	0-1
ENERGY_INFLOW_HR21	0-1
ENERGY_INFLOW_HR22	0-1
ENERGY_INFLOW_HR23	0-1
ENERGY_INFLOW_HR24	0-1

9.3.6.3 Event Codes

Event Code Number

5200, 5202, 5403, 5601, 5603, 5608

9.3.6.4 Example

GATE_POINT_ID,GAS_DAY,ENERGY_INFLOW_HR01,ENERGY_INFLOW_HR02,ENERGY_INFLOW_HR03,ENERGY_INFLOW_HR04,ENERGY_INFLOW_HR05,ENERGY_INFLOW_HR06,ENERGY_INFLOW_HR07,ENERGY_INFLOW_HR08,ENERGY_INFLOW_HR09,ENERGY_INFLOW_HR10,ENERGY_INFLOW_HR11,ENERGY_INFLOW_HR12,ENERGY_INFLOW_HR13,ENERGY_INFLOW_HR14,ENERGY_INFLOW_HR15,ENERGY_INFLOW_HR16,ENERGY_INFLOW_HR17,ENERGY_INFLOW_HR18,ENERGY_INFLOW_HR19,ENERGY_INFLOW_HR20,ENERGY_INFLOW_HR21,ENERGY_INFLOW_HR22,ENERGY_INFLOW_HR23,ENERGY_INFLOW_HR24

1101D,2003-10-01,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,,,,,,,,,

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1101A,2003-10-01,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,,,,,,,,,

1103D,2003-10-01,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,,,,,,,,,

10.7.1 Gate Point Energy and Profile (GPENGPROF)

10.7.1.1   Data flow Definition

The data estimation entity to provide gate point energy and sub-network profile to the user for each sub-network in which they operate.

10.7.1.2   Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
SUB_NETWORK_ID	1
GAS_DAY	1
ENERGY_INFLOW_HR01	1
ENERGY_INFLOW_HR02	0-1
ENERGY_INFLOW_HR03	0-1
ENERGY_INFLOW_HR04	0-1
ENERGY_INFLOW_HR05	0-1
ENERGY_INFLOW_HR06	0-1
ENERGY_INFLOW_HR07	0-1
ENERGY_INFLOW_HR08	0-1

Physical Name	Optionality
~~ENERGY_INFLOW_HR09~~	~~0 1~~
~~ENERGY_INFLOW_HR10~~	~~0 1~~
~~ENERGY_INFLOW_HR11~~	~~0 1~~
~~ENERGY_INFLOW_HR12~~	~~0 1~~
~~ENERGY_INFLOW_HR13~~	~~0 1~~
~~ENERGY_INFLOW_HR14~~	~~0 1~~
~~ENERGY_INFLOW_HR15~~	~~0 1~~
~~ENERGY_INFLOW_HR16~~	~~0 1~~
~~ENERGY_INFLOW_HR17~~	~~0 1~~
~~ENERGY_INFLOW_HR18~~	~~0 1~~
~~ENERGY_INFLOW_HR19~~	~~0 1~~
~~ENERGY_INFLOW_HR20~~	~~0 1~~
~~ENERGY_INFLOW_HR21~~	~~0 1~~
~~ENERGY_INFLOW_HR22~~	~~0 1~~
~~ENERGY_INFLOW_HR23~~	~~0 1~~
~~ENERGY_INFLOW_HR24~~	~~0 1~~
~~PROFILED_NOMINATION_HR01~~	~~1~~
~~PROFILED_NOMINATION_HR02~~	~~1~~
~~PROFILED_NOMINATION_HR03~~	~~1~~
~~PROFILED_NOMINATION_HR04~~	~~1~~
~~PROFILED_NOMINATION_HR05~~	~~1~~
~~PROFILED_NOMINATION_HR06~~	~~1~~
~~PROFILED_NOMINATION_HR07~~	~~1~~
~~PROFILED_NOMINATION_HR08~~	~~1~~
~~PROFILED_NOMINATION_HR09~~	~~1~~
~~PROFILED_NOMINATION_HR10~~	~~1~~
~~PROFILED_NOMINATION_HR11~~	~~1~~
~~PROFILED_NOMINATION_HR12~~	~~1~~
~~PROFILED_NOMINATION_HR13~~	~~1~~
~~PROFILED_NOMINATION_HR14~~	~~1~~
~~PROFILED_NOMINATION_HR15~~	~~1~~
~~PROFILED_NOMINATION_HR16~~	~~1~~
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~~PROFILED_NOMINATION_HR19~~	~~1~~
~~PROFILED_NOMINATION_HR20~~	~~1~~
~~PROFILED_NOMINATION_HR21~~	~~1~~
~~PROFILED_NOMINATION_HR22~~	~~1~~
~~PROFILED_NOMINATION_HR23~~	~~1~~
~~PROFILED_NOMINATION_HR24~~	~~1~~

10.7.1.3 Event Codes

Event Code Number
There are no event codes as the flow is outgoing flow.

10.7.1.4 Example

SUB_NETWORK_ID,GAS_DAY,ENERGY_INFLOW_HR01,ENERGY_INFLOW_HR02,ENERGY_INFLOW_HR03,ENERGY_INFLOW_HR04,ENERGY_INFLOW_HR05,ENERGY_INFLOW_HR06,ENERGY_INFLOW_HR07,ENERGY_INFLOW_HR08,ENERGY_INFLOW_HR09,ENERGY_INFLOW_HR10,ENERGY_INFLOW_HR11,ENERGY_INFLOW_HR12,ENERGY_INFLOW_HR13,ENERGY_INFLOW_HR14,ENERGY_INFLOW_HR15,ENERGY_INFLOW_HR16,ENERGY_INFLOW_HR17,ENERGY_INFLOW_HR18,ENERGY_INFLOW_HR19,ENERGY_INFLOW_HR20,ENERGY_INFLOW_HR21,ENERGY_INFLOW_HR22,ENERGY_INFLOW_HR23,ENERGY_INFLOW_HR24,PROFILED_NOMINATION_HR01,PROFILED_NOMINATION_HR02,PROFILED_NOMINATION_HR03,PROFILED_NOMINATION_HR04,PROFILED_NOMINATION_HR05,PROFILED_NOMINATION_HR06,PROFILED_NOMINATION_HR07,PROFILED_NOMINATION_HR08,PROFILED_NOMINATION_HR09,PROFILED_NOMINATION_HR10,PROFILED_NOMINATION_HR11,PROFILED_NOMINATION_HR12,PROFILED_NOMINATION_HR13,PROFILED_NOMINATION_HR14,PROFILED_NOMINATION_HR15,PROFILED_NOMINATION_HR16,PROFILED_NOMINATION_HR17,PROFILED_NOMINATION_HR18,PROFILED_NOMINATION_HR19,PROFILED_NOMINATION_HR20,PROFILED_NOMINATION_HR21,PROFILED_NOMINATION_HR22,PROFILED_NOMINATION_HR23,PROFILED_NOMINATION_HR24

SUBNET1,2003-10-01,100,100,150,500,500,750,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,,,,,,100,200,200,200,500,500,500,500,1500,1500,1500,1500,1500,1500,1500,1500,500,500,500,500,300,300,200,200

SUBNET2,2003-10-01,100,100,150,500,500,750,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,,,,,,100,200,200,200,500,500,500,500,1500,1500,1500,1500,1500,1500,1500,1500,500,500,500,500,300,300,200,200

10.8.1 Estimated Consumption Amount (ECA)

10.8.1.1 Data flow Definition

The data estimation entity to provide the user's hourly estimated consumption amount to the user for each sub-network.

10.8.1.2 Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
USER_GBO_ID	1

Physical Name	Optionality
SUB_NETWORK_ID	1
GAS_DAY	1
ESTIMATED_CONSUMPTION_AMOUNT_HR01	1
ESTIMATED_CONSUMPTION_AMOUNT_HR02	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR03	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR04	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR05	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR06	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR07	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR08	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR09	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR10	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR11	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR12	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR13	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR14	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR15	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR16	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR17	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR18	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR19	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR20	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR21	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR22	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR23	0-1
ESTIMATED_CONSUMPTION_AMOUNT_HR24	0-1

10.8.1.3 Event Codes

Event Code Number
There are no event codes as the flow is outgoing flow.

10.8.1.4 Example

USET_GBO_ID,SUB_NETWORK_ID,GAS_DAY,ESTIMATED_CONSUMPTION_AMO
UNT_HR01,ESTIMATED_CONSUMPTION_AMOUNT_HR02,ESTIMATED_CONSUM
PTION_AMOUNT_HR03,ESTIMATED_CONSUMPTION_AMOUNT_HR04,ESTIMATE
D_CONSUMPTION_AMOUNT_HR05,ESTIMATED_CONSUMPTION_AMOUNT_HR0
6,ESTIMATED_CONSUMPTION_AMOUNT_HR07,ESTIMATED_CONSUMPTION_AM
OUNT_HR08,ESTIMATED_CONSUMPTION_AMOUNT_HR09,ESTIMATED_CONSU
MPTION_AMOUNT_HR10,ESTIMATED_CONSUMPTION_AMOUNT_HR11,ESTIMAT
ED_CONSUMPTION_AMOUNT_HR12,ESTIMATED_CONSUMPTION_AMOUNT_HR
13,ESTIMATED_CONSUMPTION_AMOUNT_HR14,ESTIMATED_CONSUMPTION_A
MOUNT_HR15,ESTIMATED_CONSUMPTION_AMOUNT_HR16,ESTIMATED_CONS
UMPTION_AMOUNT_HR17,ESTIMATED_CONSUMPTION_AMOUNT_HR18,ESTIMA
TED_CONSUMPTION_AMOUNT_HR19,ESTIMATED_CONSUMPTION_AMOUNT_H

R20,ESTIMATED_CONSUMPTION_AMOUNT_HR21,ESTIMATED_CONSUMPTION_AMOUNT_HR22,ESTIMATED_CONSUMPTION_AMOUNT_HR23,ESTIMATED_CONSUMPTION_AMOUNT_HR24

USR1,SUBNET1,2003-10-01,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000

USR1,SUBNET2,2003-10-01,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500

USR5,SUBNET5,2003-10-01,500,500,,,,,,,,,,,,,,,,,,,,,

10.6.4 Sub-network Profiled Forecast (NPF)

10.6.4.1 Data flow Definition

The data estimation entity to provide the profiled forecast for the sub-network which is the forecasted amount of gas used by the sub-network for the gas day.

10.6.4.2 Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
SUB_NETWORK_ID	1
GAS_DAY	1
PROFILE_FORECAST_HR01	1
PROFILE_FORECAST_HR02	1
PROFILE_FORECAST_HR03	1
PROFILE_FORECAST_HR04	1
PROFILE_FORECAST_HR05	1
PROFILE_FORECAST_HR06	1
PROFILE_FORECAST_HR07	1
PROFILE_FORECAST_HR08	1
PROFILE_FORECAST_HR09	1
PROFILE_FORECAST_HR10	1
PROFILE_FORECAST_HR11	1
PROFILE_FORECAST_HR12	1
PROFILE_FORECAST_HR13	1
PROFILE_FORECAST_HR14	1
PROFILE_FORECAST_HR15	1
PROFILE_FORECAST_HR16	1
PROFILE_FORECAST_HR17	1
PROFILE_FORECAST_HR18	1
PROFILE_FORECAST_HR19	1
PROFILE_FORECAST_HR20	1
PROFILE_FORECAST_HR21	1
PROFILE_FORECAST_HR22	1
PROFILE_FORECAST_HR23	1
PROFILE_FORECAST_HR24	1

10.6.4.3 Event Codes

Event Code Number

There are no event codes as the flow is outgoing flow.

10.6.4.4 Example

SUB_NETWORK_ID,GAS_DAY,PROFILE_FORECAST_HR01,PROFILE_FORECAST_HR02,PROFILE_FORECAST_HR03,PROFILE_FORECAST_HR04,PROFILE_FORECAST_HR05,PROFILE_FORECAST_HR06,PROFILE_FORECAST_HR07,PROFILE_FORECAST_HR08,PROFILE_FORECAST_HR09,PROFILE_FORECAST_HR10,PROFILE_FORECAST_HR11,PROFILE_FORECAST_HR12,PROFILE_FORECAST_HR13,PROFILE_FORECAST_HR14,PROFILE_FORECAST_HR15,PROFILE_FORECAST_HR16,PROFILE_FORECAST_HR17,PROFILE_FORECAST_HR18,PROFILE_FORECAST_HR19,PROFILE_FORECAST_HR20,PROFILE_FORECAST_HR21,PROFILE_FORECAST_HR22,PROFILE_FORECAST_HR23,PROFILE_FORECAST_HR24

1101,2003-10-01,150,150,200,250,250,300,550,550,700,750,1250,1300,1150,1150,1200,1250,750,300,150,150,200,250,250,300

1102,2003-10-01,150,150,200,250,250,300,550,750,900,1750,2250,2300,1550,1650,1200,1250,750,300,150,150,200,250,150,100

1103,2003-10-01,150,150,200,250,250,400,550,550,900,950,1250,1300,1150,1150,1200,1250,750,500,500,450,300,250,350,200

10.6.5 User Profile Forecast (UPF)

10.6.5.1 Data flow Definition

The data estimation entity to provide to the user the user's profile forecast and the components used to calculate the user's profile forecast which are the user's basic-meter profile forecast, the user's interval-meter profile forecast, the user's reconciliation profile forecast, the user's swing profile forecast, and the user's unaccounted for gas profile forecast.

10.6.5.2 Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
USER_GBO_ID	1
SUB_NETWORK_ID	1
GAS_DAY	1
USER_PROFILE_TYPE	1
PROFILE_FORECAST_HR01	1
PROFILE_FORECAST_HR02	1
PROFILE_FORECAST_HR03	1
PROFILE_FORECAST_HR04	1
PROFILE_FORECAST_HR05	1
PROFILE_FORECAST_HR06	1
PROFILE_FORECAST_HR07	1

PROFILE_FORECAST_HR08	1
PROFILE_FORECAST_HR09	1
PROFILE_FORECAST_HR10	1
PROFILE_FORECAST_HR11	1
PROFILE_FORECAST_HR12	1
PROFILE_FORECAST_HR13	1
PROFILE_FORECAST_HR14	1
PROFILE_FORECAST_HR15	1
PROFILE_FORECAST_HR16	1
PROFILE_FORECAST_HR17	1
PROFILE_FORECAST_HR18	1
PROFILE_FORECAST_HR19	1
PROFILE_FORECAST_HR20	1
PROFILE_FORECAST_HR21	1
PROFILE_FORECAST_HR22	1
PROFILE_FORECAST_HR23	1
PROFILE_FORECAST_HR24	1

10.6.5.3   Event Codes

Event Code Number

There are no event codes as the flow is outgoing flow.

10.6.5.4   Example

USER_GBO_ID,SUB_NETWORK_ID,GAS_DAY,USER_PROFILE_TYPE,PROFILE_FORECAST_HR01,PROFILE_FORECAST_HR02,PROFILE_FORECAST_HR03,PROFILE_FORECAST_HR04,PROFILE_FORECAST_HR05,PROFILE_FORECAST_HR06,PROFILE_FORECAST_HR07,PROFILE_FORECAST_HR08,PROFILE_FORECAST_HR09,PROFILE_FORECAST_HR10,PROFILE_FORECAST_HR11,PROFILE_FORECAST_HR12,PROFILE_FORECAST_HR13,PROFILE_FORECAST_HR14,PROFILE_FORECAST_HR15,PROFILE_FORECAST_HR16,PROFILE_FORECAST_HR17,PROFILE_FORECAST_HR18,PROFILE_FORECAST_HR19,PROFILE_FORECAST_HR20,PROFILE_FORECAST_HR21,PROFILE_FORECAST_HR22,PROFILE_FORECAST_HR23,PROFILE_FORECAST_HR24

USR1,1101,2003-10-01,UPF,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000

USR1,1101,2003-10-01,UBPF,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500

USR1,1101,2003-10-01,UiPF,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300

USR1,1101,2003-10-01,SPF,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50

USR1,1101,2003-10-01,RPF,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100

USR1,1101,2003-10-01,UUAFGPF,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50

10.6.6 Participant Profile Forecast (PPF)

10.6.6.1 Data flow Definition

The data estimation entity to provide the profile forecast for the user, shipper and pipeline to the relevant participant which is the participant's expected amount of gas for the gas day.

10.6.6.2 Physical Mapping

The data for this flow must be provided in an automated electronic file.

Physical Name	Optionality
PARTICIPANT_GBO_ID	1
SUB_NETWORK_ID	1
PIPELINE_ID	1
GAS_DAY	1
PROFILE_FORECAST_HR01	1
PROFILE_FORECAST_HR02	1
PROFILE_FORECAST_HR03	1
PROFILE_FORECAST_HR04	1
PROFILE_FORECAST_HR05	1
PROFILE_FORECAST_HR06	1
PROFILE_FORECAST_HR07	1
PROFILE_FORECAST_HR08	1
PROFILE_FORECAST_HR09	1
PROFILE_FORECAST_HR10	1
PROFILE_FORECAST_HR11	1
PROFILE_FORECAST_HR12	1
PROFILE_FORECAST_HR13	1
PROFILE_FORECAST_HR14	1
PROFILE_FORECAST_HR15	1
PROFILE_FORECAST_HR16	1
PROFILE_FORECAST_HR17	1
PROFILE_FORECAST_HR18	1
PROFILE_FORECAST_HR19	1
PROFILE_FORECAST_HR20	1
PROFILE_FORECAST_HR21	1
PROFILE_FORECAST_HR22	1
PROFILE_FORECAST_HR23	1
PROFILE_FORECAST_HR24	1

10.6.6.3 Event Codes

Event Code Number

There are no event codes as the flow is outgoing flow.

10.6.6.4 Example

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PARTICIPANT_GBO_ID,SUB_NETWORK_ID,PIPELINE_ID,GAS_DAY,PROFILE_F
ORECAST_HR01,PROFILE_FORECAST_HR02,PROFILE_FORECAST_HR03,PRO
FILE_FORECAST_HR04,PROFILE_FORECAST_HR05,PROFILE_FORECAST_HR
06,PROFILE_FORECAST_HR07,PROFILE_FORECAST_HR08,PROFILE_FORECA
ST_HR09,PROFILE_FORECAST_HR10,PROFILE_FORECAST_HR11,PROFILE_F
ORECAST_HR12,PROFILE_FORECAST_HR13,PROFILE_FORECAST_HR14,PRO
FILE_FORECAST_HR15,PROFILE_FORECAST_HR16,PROFILE_FORECAST_HR
17,PROFILE_FORECAST_HR18,PROFILE_FORECAST_HR19,PROFILE_FORECA
ST_HR20,PROFILE_FORECAST_HR21,PROFILE_FORECAST_HR22,PROFILE_F
ORECAST_HR23,PROFILE_FORECAST_HR24

SHP1,1101,P,2003-10-
01,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,
1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000,1000

SHP1,1102,P,2003-10-
01,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,500,50
0,500,500,500,500,500

SHP1,1101,D,2003-10-
01,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,300,30
0,300,300,300,300,300

SHP1,1102,D,2003-10-
01,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50
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ATTACHMENT C – Consolidated List of Stakeholder Feedback to Proposed Procedure Change

STAKEHOLDER	CLAUSE/SECTION REF.	ISSUE/COMMENT	PROPOSED TEXT ~~RED STRIKEOUT~~ MEANS DELETE AND <u>BLUE UNDERLINE</u> MEANS INSERT	AEMO RESPONSE
APA/AGN	General scope	As discussed recently, APA/AGN recommends that as part of this consultation, AEMO should also consider deleting clauses 213 and 216, which also relate to intra-day reporting. Under clause 216 AEMO is required to produce intra-day reports for Users, Network Operators, Shippers and Pipeline Operators. Under clause 213 the Network Operator must provide AEMO with intra-day interval meter data for a handful of large interval metered sites, which is then used as an input in the calculation of revised information for some of the intra-day reports produced under clause 216.		AEMO acknowledges APA/AGN's proposed change. Having canvassed the GRCF and Pipeline Operators on this proposal and the fact the no objections were raised, AEMO supports the proposal to include this new initiative in the scope of works.

STAKEHOLDER	CLAUSE/SECTION REF.	ISSUE/COMMENT	PROPOSED TEXT RED STRIKEOUT MEANS DELETE AND BLUE UNDERLINE MEANS INSERT	AEMO RESPONSE
Origin Energy	General	Our initial feedback indicated that we do not use the reports, accordingly, we are ok for the changes to SA RMPS to reflect this. Origin accept the implementation date for this Procedure Date.		AEMO acknowledges Origin Energy's support.
AGL	General	AGL has no objections to the proposed changes		AEMO acknowledges AGL's support
Red/Lumo	General	Red and Lumo Energy support the removal of Clause 215 and by extension Clause 216, these reports are no longer required since South Australia became a part of the STTM. Red and Lumo do however suggest that AEMO includes Gas Wholesale Market Forum (GWCF) members in this change and advises the working group of AEMO's decision to remove applicable clause and reports.		AEMO acknowledges Red/Lumo support and will circulate the IIR to the GWCF for their consideration.