

# **Interface Specification**

## **Components of Flow-Weighted Average CV Interface File**

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## **1. Introduction**

### **1.1 Purpose**

This document details the structure of the Components of Flow Weighted Average CV Interface File sent from SC95 to Ofgem.

The file will contain multiple record types for each LDZ. Corrections will also be included up to D+5. The file will be created once a month and will be sent to Ofgem on a three and a half inch floppy disk by the Gas Quality section of System Operations based at the Hinckley Operational Centre.

### **1.2 Scope**

This specification acts as a common definition for all systems development teams that need to write code to send or receive the interface file.

### **1.3 Assumptions**

The document is accepted and agreed by all teams responsible for code relating to the interface. Any changes to the interface are agreed with all parties prior to the document revision being published.

## 2. File Structure

The file will be a flat (text) file.

Leading and trailing blanks will be removed from fields.

Each file will be in CSV, comma separated variable format.

The file records will be of variable length.

Where a value cannot be found for a specific site a value of all 9s will be sent to indicate a missing value. For example a missing CV values will appear as 99.9, a missing volume value will appear as 99.99999 etc.

Each file produced will have :

A header record ( Record Type of A00 )

A detail record for each LDZ (Record Type of Dnn). Where the nn component will be made up of different site types within the LDZ i.e. D10 On Shore Field Records D20 Offtake Records, etc.

A trailer record ( Record type Z99) that holds a count of all record types Dnn in the file.

In this section, field formats are described using the following notation:

PIC X	field consists of 1 alphanumeric character
PIC XXX	field consists of 3 alphanumeric characters
PIC X(n)	field consists of n alphanumeric characters
PIC 99.9	field consists of 4 characters, the third is a decimal point the rest are numeric
PIC 9.9999	field consists of 6 characters, the second is a decimal point the rest are numeric
PIC 9(n)	field consists of n numeric characters

### 2.1 Physical File Name

This is a non-standard interface in that the User is able to define ( via the calling form ) the name and location of the file to be created. This file is subsequently sent via floppy disk to OFGEM.

### 2.2 Field Descriptions

#### RECORD TYPE

A00 - Header Record

Dnn - Detail Record : Where nn = detail record number.

Multiple detail records then exist as follows :

D10 - On Shore Field record

D20 - Offtake record

D30 - Tracker Calorimeter record

D40 - Official Calorimeters considered in the Capping Process

D50 - LDZ record  
D60 - LDZ Transfers In record  
D70 - LDZ Transfers Out record  
D80 - NTS VLDMC using LDZ CV  
D85 - Sub-LDZ VLDMC using site own CV  
D90 - Official Calorimeters not directly considered in the Capping Process  
D95 - Official Calorimeters selected by Site Stream Selection Process  
  
Z99 - Trailer Record

## FILE TYPE

The interface file types are defined in the Transco File name register to identify the structure and usage of the files. Although this interface file will not have an official file type defined in the register, provision has been made for such a file type to be used in the future. Meanwhile, a temporary file type will be used.

## CREATION DATE

The date on which the file was generated.

The format of the Date created field is YYYYMMDD where:

YYYY = Year  
MM = Month  
DD = Day of the month

## CREATION TIME

The time of the day at which the file was generated (within the date created).

The format of the Time created field is HHMMSS where:

HH = Hour of the Day  
MM = Minutes of Hour  
SS = Seconds of the minute

## FILE NUMBER

A consecutive generation file number, starting from 1 for the first file for this File Type. It is used by the receiving system to identify any missing files, or the receipt of files out of sequence.

## RECORD STATUS

Data source - The System Control sending system

I or A, where:

I = Insertion (Initial input)  
A = Amendment (Correction at later stage)

## LDZ REFERENCE

LDZ mnemonic (up to 4 characters)

## GASDAY

This is the gasday for which the data is applicable.

The format is YYYYMMDD where -

YYYY - year  
MM - month  
DD - Day

## RECORD COUNT

This is a count of the data records in the file, (i.e. exclusive of header and trailer records). This is a whole (integer) number of 10 digits maximum length.

## 2.3 File Layout

### 2.3.1 Header Record

RECORD TYPE	PIC X(3) - A00 For Header Record
FILE TYPE	PIC X(3) - File Type ABC
CREATION DATE	PIC X(8) - Format YYYYMMDD
CREATION TIME	PIC X(6) - Format HHMMSS
FILE NUMBER	PIC 9(6) - A unique number per file

### 2.3.2 Data Records

The format for each data record is detailed in the following sections.

The Measurement value units are :

Volume (MSm<sup>3</sup> - Millions of Standard Cubic Metres)  
Energy (KWh - kiloWatt-hour)  
CV (MJ/m<sup>3</sup> - Mega Joules per Cubic Metre)

#### 2.3.2.1 D10 - On Shore Field Record

For each LDZ there is a record for each on-shore field contained by the LDZ.

Record Type	PIC X(3)	- D10
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	

Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Volume	PIC 99.99999	
Energy	PIC 9(11)	
CV	PIC 99.9	

### 2.3.2.2 D20 - Offtake Record

For each LDZ there is a record for each NTS offtake which supplies the LDZ.

Record Type	PIC X(3)	- D20
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Volume from telemetry	PIC 99.99999	
Volume corrected for SG	PIC 99.99999	
Attributed CV	PIC 99.9	
Attributed SG	PIC 9.9999	
Energy calculated using attributed CV	PIC 9(11)	
Official Calorimeter Site	PIC X(8)	
Official Calorimeter Meter Reference	PIC X(10)	

### 2.3.2.3 D30 - Tracker Calorimeter Record

For each offtake, where the offtake has a tracker calorimeter installed/configured.

Record Type	PIC X(3)	- D30
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Offtake Tracker CV	PIC 99.9	
Offtake Tracker SG	PIC 9.9999	

### 2.3.2.4 D40 - Official Calorimeters Considered In The Capping Process Record

These records are a distinct list of all official calorimeters which are considered in the capping process. This record differs to the other records in that a meter reference will also be provided. A given site may have multiple official calorimeter meters. It should also be noted that a record for a calorimeter may appear more than once in the file as a calorimeter can feed more than one LDZ.

Record Type	PIC X(3)	- D40
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Official Calorimeter Meter Reference	PIC X(10)	
Official Calorimeter CV	PIC 99.9	
Official Calorimeter SG	PIC 9.9999	

### 2.3.2.5 D50 - LDZ Record

These records give the total volume, total energy, FWACV(uncapped) and FWACV(capped) for each LDZ.

Record Type	PIC X(3)	- D50
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Total LDZ Volume	PIC 99.99999	
Total LDZ Energy	PIC 9(11)	
Flow Weighted Average CV (not capped)	PIC 99.9	
Flow Weighted Average CV (capped)	PIC 99.9	

### 2.3.2.6 D60 - LDZ Transfers In Record

These records give the transfer Volume ,CV & Energy into each LDZ where a transfer point exists.

Record Type	PIC X(3)	- D60
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	- The LDZ receiving Gas
Gas day	PIC 9(8)	- Format YYYYMMDD
The Source LDZ	PIC X(8)	- The LDZ providing the Gas
LDZ Transfer In CV	PIC 99.9	
LDZ Transfer In Energy	PIC 9(11)	
LDZ Transfer In Volume	PIC 99.99999	
Official Calorimeter Site	PIC X(8)	
Official Calorimeter Meter Reference	PIC X(10)	

### 2.3.2.7 D70 - LDZ Transfers Out Record

These record give the transfer Volume ,CV & Energy out of each LDZ where a transfer point exists.

Record Type	PIC X(3)	- D70
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	- The LDZ providing Gas
Gas day	PIC 9(8)	- Format YYYYMMDD
The recipient LDZ	PIC X(8)	- The LDZ receiving the Gas
LDZ Transfer Out CV	PIC 99.9	
LDZ Transfer Out Energy	PIC 9(11)	
LDZ Transfer Out Volume	PIC 99.99999	
Official Calorimeter Site	PIC X(8)	
Official Calorimeter Meter Reference	PIC X(10)	

### 2.3.2.8 D80 - NTS VLD Using LDZ CV Record

These records hold data for sites which are categorised as special within the flow weighted average CV process. These records hold values for sites that are classified as NTS sites but which use the LDZ CV. The energy and CV values are the attributed values for the site.

Record Type	PIC X(3)	- D80
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	



Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Volume	PIC 99.99999	
Energy	PIC 9(11)	
CV	PIC 99.9	

### 2.3.2.9 D85 - Sub-LDZ VLD Using Own CV Record

These records will hold data for sites which are categorised as special within the flow weighted average CV process. These record hold values for special sites which measure and use their own CV even though they are classified as a sub-LDZ site.

Record Type	PIC X(3)	- D85
Record Status	PIC X	- I or A
LDZ reference	PIC X(4)	
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Volume	PIC 99.99999	
Energy	PIC 9(11)	
CV	PIC 99.9	

### 2.3.2.10 D90 - Official Calorimeters Not Considered In The Capping Process Record

These are distinct records for all official calorimeters which are not considered in the capping process. These records differ from the other records in that a meter reference is also provided. A given site may have multiple official calorimeter meters.

Record Type	PIC X(3)	- D90
Record Status	PIC X	- I or A
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Official Calorimeter Meter Reference	PIC X(10)	
Official Calorimeter CV	PIC 99.9	
Official Calorimeter SG	PIC 9.9999	

### 2.3.2.11 D95 - Official Calorimeters Selected By Site Stream Selection Process Record

These are distinct records for all the meters used in the site stream selection process.

Record Type	PIC X(3)	- D95
Record Status	PIC X	- I or A
Gas day	PIC 9(8)	- Format YYYYMMDD
The site	PIC X(8)	- The site within the LDZ
Official Calorimeter Meter Reference	PIC X(10)	
Source Official Calorimeter Meter Ref.	PIC X(10)	

### 2.3.3 Trailer Record

RECORD TYPE	PIC X(3)
RECORD COUNT	PIC 9(10)

**The record count does not include the header or trailer information i.e. it is only a count of the detail record.**

## 2.4 Example File

Example File Layout :

( Please note that, for brevity, not all records are shown. )

```
"A00","ABC",20000404,090244,1
"D20","I","EA",20000319,"BADS",00.12614,00.12614,38.4,0.6038,00001345493,"BACT","C2"
"D30","I","EA",20000319,"BADS",99.9,9.9999
"D40","I","EA",20000319,"BACT","C1",40.1,0.6390
"D50","I","EA",20000319,"EA",14.49008,00155176189,38.6,38.6
"D10","I","EM",20000319,"HFMR",00.00000,00000000000,39.6
"D20","I","EM",20000319,"ALRE",08.42599,08.42599,39.4,0.6451,00092217779,"ALRE","C1"
"D30","I","EM",20000319,"ALRE",99.9,9.9999
"D40","I","EM",20000319,"ALRE","C1",39.4,0.6451
"D50","I","EM",20000319,"EM",19.78007,00217039812,39.5,39.4
"D70","I","EM",20000319,"ALRJ",39.4,00004990360,00.45597,"ALRJ","C3"
"D85","I","EM",20000319,"DERW",01.22920,00013465000,99.9
"D10","I","EM",20000319,"CAYT",00.00000,00000000000,40.3
"D20","I","NE",20000319,"ASSL",00.14378,00.14378,40.6,0.6498,00001621519,"TOWT","C1"
"D30","I","NE",20000319,"ASSL",99.9,9.9999
"D40","I","NE",20000319,"BLYB","OF_OC",35.0,0.5000
"D50","I","NE",20000319,"NE",10.80930,00121899445,40.6,40.6
"D85","I","NE",20000319,"BPLP",01.04920,00011838083,99.9
"D20","I","NO",20000319,"BISH",02.83801,02.83801,40.4,0.6531,00031848779,"BISH","OF_OC"
"D30","I","NO",20000319,"BISH",99.9,9.9999
"D40","I","NO",20000319,"BISH","OF_OC",40.4,0.6531
"D50","I","NO",20000319,"NO",12.06658,00135855804,40.5,40.5
"D20","I","NW",20000319,"AUDN",00.43910,00.43910,39.3,0.6450,00004793508,"AUDN","OF_OC"
"D30","I","NW",20000319,"AUDN",99.9,9.9999
"D40","I","NW",20000319,"AUDN","OF_OC",39.3,0.6450
"D50","I","NW",20000319,"NW",28.98439,00316500429,39.3,39.3
"D80","I","NW",20000319,"SHEL",01.01810,00011142539,39.4
"D80","I","NW",20000319,"ICIR",00.72470,00007931439,39.4
"D20","I","SE",20000319,"FARN",08.68180,08.68180,38.4,0.6028,00092605867,"FARN","OF_OC"
"D30","I","SE",20000319,"FARN",99.9,9.9999
"D40","I","SE",20000319,"FARN","OF_OC",38.4,0.6028
"D50","I","SE",20000319,"SE",21.31263,00228026159,38.5,38.5
"D85","I","SE",20000319,"KEMS",00.78370,00008380917,99.9
"D85","I","SE",20000319,"TOHK",00.40100,00004279444,99.9
"D20","I","SW",20000319,"AYLE",00.80000,00.80000,38.8,0.6214,00008622222,"AYLE","OF_OC"
"D30","I","SW",20000319,"AYLE",99.9,9.9999
"D40","I","SW",20000319,"ALNG","C1",39.6,0.6380
"D50","I","SW",20000319,"SW",11.10921,00121284157,39.3,39.3
"D80","I","SW",20000319,"ICIS",00.32840,00003621522,39.7
"D20","I","WM",20000319,"ALRW",05.01599,05.01599,39.4,0.6450,00054897224,"ALRW","C1"
"D30","I","WM",20000319,"ALRW",99.9,9.9999
"D40","I","WM",20000319,"ALRW","C1",39.4,0.6450
"D50","I","WM",20000319,"WM",16.89759,00184933528,39.4,39.4
"D60","I","WM",20000319,"ALRJ",39.4,00004990360,00.45597,"ALRJ","C3"
"D20","I","WN",20000319,"MAEL",02.43360,02.43360,39.4,0.6449,00026634400,"MAEL","OF_OC"
"D30","I","WN",20000319,"MAEL",99.9,9.9999
"D40","I","WN",20000319,"MAEL","C1",39.4,0.6450
"D50","I","WN",20000319,"WN",02.43360,00026634400,39.4,39.4
"D90","I",20000319,"ALRJ","C1",39.4,0.6453
"D90","I",20000319,"GUYZ","OF_OC",99.9,9.9999
"D90","I",20000319,"HARD","C1",99.9,9.9999
"D90","I",20000319,"LPTJ","C1",39.2,0.6450
"D90","I",20000319,"LTDW","OF_OC",99.9,9.9999
"D90","I",20000319,"MAEL","OF_OC",39.4,0.6449
"D90","I",20000319,"MICK","C1",39.4,0.6450
"D90","I",20000319,"MICK","C2",39.4,0.6450
"D95","I",20000319,"ALRE","C1","C1_1"
"D95","I",20000319,"ALRJ","C1","C1_1"
"D95","I",20000319,"ALRW","C1","C1_1"
"D95","I",20000319,"BACT","C1","C1_1"
"D95","I",20000319,"BACT","C2","C2_1"
"D95","I",20000319,"BACT","C3","C3_1"
"D95","I",20000319,"BACT","C4","C4_1"
"Z99",446
```

### 3. Sign-Off

**NAME**

**JOB TITLE**

**SIGNATURE**

**DATE**