Verification	Year		Date of Last Revision		Revision Number	
1.1	Identification of the Installation Operator		Operator Name			sment template is an example and should be the guidance provided in <u>Key Guidance</u>
1.2	Installation Details		Installation name Site name		is based upon to note but in a m described and) - verification risk, given in Section 5 below that given on page 10 of the Key Guidance nore intuitive format (ie the logic as I presented in the KGN is reversed to make it
1.3	Address		Street address Town County Postcode		Where necessa given in the Ris the MRR and A	and user friendly). ary , short plain english explanations are sk Table below, but the full definitions as in NVR (and associated guidance) should be
1.4	EU ETS Main Contact Person Email		Phone		Risk Analysis S showing how t	f the exemplar shows only activity up to the Stage. A separate exemplar is provided the verifier might then plan tests and
1.6	Activities according to Annex 1 of the EU ET Number 1 2 3 4 5	S Directive Name of activity (Annex I of the ETS Directive) Combustion of fuels in installations with a total rated then	mal input exceeding 20 MW (except in installation	ons for the incineration of	sampling, as w transparency.	vell as record the results of testing for
2	Monitoring and Reporting Plan Review			3. Verification Implications		
2.1	Most Recent Update of the Monitoring Plan		Plan ID Date of Approval Number of previous versions applicable to this reporting year			Free Text
2.2	Has any change to the applied monitoring ti	ers occurred during the reporting year?]	If yes, has this been taken into a	account in the Risk Analysis/Verif	fication Plan? [Yes/No, because]
2.3	Has an Annual Report on Progress to Highes	t Tier been submitted to the Competent Authority?]	If yes, has this been taken into a	account in the Risk Analysis/Verif	fication Plan? [Yes/No, because]
2.4	Has an Annual Report on Potential Improver	ments Identified by the Verifier been submitted to the Cor	npetent Authority?	If yes, has this been taken into a	account in the Risk Analysis/Verif	fication Plan? [Yes/No, because]
2.5	Have any Notification of metering failure or	other changes been made to the Competent Authority?]	If yes, has this been taken into a	account in the Risk Analysis/Verif	fication Plan? [Yes/No, because]
2.6	Have any variations been made to the Com	petent Authority?	1	If yes, has this been taken into a	account in the Risk Analysis/Verif	fication Plan? [Yes/No, because]

4	Review									
4.1	Previous Year Verified Emissions if applicable. If not, use estimated for year		27779				Category	Optional Use: To check de minimis a are correct, auditor can use this spa aggregated percentage of de minim to confirm correct classification. E.g de minimis source and the correct be checked.	ne urces ·1	
4.2	Required materiality level applied		2%						Free Text	
4.3	Team/Verifier Competencies OK?	,	Yes	source st	bution of each tream to the ssions declared					
4.4	Time Allocation Sufficient	,	Yes	total elli	ssions deciared					
	Items in blue columns auto-calculate o	once tonnes ar	e put into colur	nn 4 below. (Once tonnes da	ta entered sort	by Aggregate % and then Aggregate tonnes in columns (7) and (8)	below	=	
4.5	Contribution analysis & M/M/DM check	Source	Fuel / Material Stream	tonnes CO ₂ e	%contributio n	Separate RA Table Below?	Comments/Verification Focus Deminis = ≤1kt or ≤2% total (to 20kt) Minor = ≤5kt or ≤10% total (to 100kt)		Agg %age (Largest to Smallest)	Agg t (Largest to smallest)
		(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)
		S3-4 S1	F1 (Nat Gas) F1 (Nat Gas)	20025.73 6926.8	72.089% 24.935%	1 2	Major Major		99.999% 27.909%	27,779 7,753
		S2 S8-11	F2 (HFO)	561.404 203.99	2.021% 0.734%		Minor De minimis		2.974% 0.953%	826 265
		S1	F1 (Nat Gas) F8 (Kero)	42.65	0.754%		De minimis		0.219%	61
		S5-6	F4 (Nat Gas)	11.7	0.042%		De minimis		0.065%	18
		<i>S7</i>	F3 (Nat Gas)	5.803	0.021%		De minimis		0.023%	6
		S14	F6 (Propane)	0.551	0.002%		De minimis		0.002%	0
					0.000% 0.000%				0.000% 0.000%	0
				0	0.000% 100.00%		Check if not 100% - rounding?		0.000%	0
4.6	Previous Findings Closed?	Ye	es/No		Comments on I	Previous Findings				Free Text
4.7 Commen	ts on Monitoring methodologies, data flow acti	ivities, control s	system and contr	ol environmen	t					Free Text

Risk Analysis; Testing and Results ppy/Paste as many sets of the table below as are needed for each of the identified Major Source Streams in 4.5 above; apply the risk rankings to each element of the table. The examples given below are indicative, the text in columns A, B and C must be edited to match the GHG monitoring and reporting elements identified in the Operator's data flow Severity relates to the severity of the impact upon the data. E.g. if the problem occurred would it result in Assigning Risk Ranks in the Risk Analysis Below NOTE TO VERIFIERS . a significant or insignificant mis-statement of data for that stream. If the data stream was a significant contributor to the overall total emissions, even an insignificant mis-statement in the individual data stream (1) Inherent Risk relates to the implication that there might be a miscould have a material impact upon the aggregate total; therefore the overall contribution to the total needs statement arising in the data resulting from the attributes or characteristics to be taken into account also. This contribution is identified in Table 4.5 above of the source of the data (or its manipulation) in the absence of any quality 1) Inherent Risk 3) Verification Risk Control Likelihood relates to the Severity 2) Control Risk м н chance that the problem ī М н Low Medium (2) Control Risk relates to the implication that a quality control in place Very Low would occur. Is it highly might break down or be mis-applied (or might be non-existent) therefore likely or not? Low Low М Inherent Low Medium High Low meaning that any inherent risk identified would have an impact upon the Likelihood Low Medium Medium Medium High Highest Low means there is a robust control in place and minimal Inherent Risk relates to the implication that Low Medium High The higher the verification risk the greater depth of verification and liklihood that the control would breakdown or be misthere might be a mis-statement arising in the data amount of sampling and testing required in order to reduce the level of applied. (3) Verification risk relates to the implication that an incorrect conclusion is resulting from the attributes or characteristics of High means there is no control in place or breakdown etc is verification risk such that residual risk is acceptable arrived at as a result of failure to conduct sufficient breadth and depth of the source of the data (or its manipulation) in the highly likely testing etc. Therefore the higher the verification risk (as a product if absence of any quality controls inherent and control risks) the more work is required to be done Insert unique ID of relevant evidence item Fuel/Source Stream: Natural Gas S1, S3-4 from Evidence Index Table No. 1 Activity Description Type of Risk Relevant to Inherent Risk Verifier Assessment of client control activities & Control Verification Risk Verification Test Plan & Results of Testing & Evidence Residual Risk Finding transferred to this data (& so denth of Sampling Plan Verification Comments Issues Log? effectiveness Reference Accentable? flow? Verification (if applicable) K reference to Documen List Activity Required (A) (B) (C) Severity Likelihood Risk Measurement of Installed equipment are appropriate? ncorrect measurements Yes М Annual calibration and maintenance regime in place The next stage of workpaper Measurement of f applicable - deduction meters from this ncorrect measurements No completion is shown in the ource are appropriate? separate exemplar covering the sampling plan Measurement of Installed equipment location is appropriate? Incorrect measurements Appropriate location & installation configuration -Yes MEDIUM rrect length of minimum straight run of pipe etc LOW Input data to calculation stated to be checked and Installed equipment uncertainty acceptable? Incorrect measurement, Yes non compliance with tier evidenced; and updated annually Calculation stated to follow recognised Standard or Measurement of Equipment Calibration and Maintenance? Incorrect measurement Yes Meter is responsibility of mains gas supplier under their calibration and maintenance regime Measurement of Equipment failure? Missing data, 2 meter streams in place, main and back up ncompleteness Incorrect neasurement Alternative methods? Alternate method agreed with Competent Authority Missing data, Non omnliance with tier and stated in procedures. But no missing data ncorrect measurement declared.

Measurement of flow	Manipulation of source data to produce consumption?	Incorrect conversion factors or other errors in calculations	No	L	М	М	Potential for anomalies to arise as the spread sheets feed several different reporting processes with different needs which could result in changes being made by other users impacting upon wmissions reporting	М	MEDIUM			
Fuel sampling	Location & Frequency of sampling	Unrepresentative samples,	Yes	Н	L	н	Continuous on line sampling	M	HIGH			
		non compliance with M&R requirements										
Fuel analysis	Methodology appropriate?	Incorrect analysis	Yes	Н	L	Н	ISO 17025 certified provider used	М	HIGH			
Fuel analysis Fuel	Calibration appropriate?	Incorrect calibration , leading to incorrect factors, inaccuracy	Yes	н	L	н	Competent 3rd party used for maintenance	М	HIGH			
Consumption totals	Manual or automatic data transfer errors	Data transfer errors, incorrect tags, missing data, missing invoices, data entry errors, calculation errors, incorrect totals	Yes		L	н	A lot of manual transfers but cross checked between data co-ordinator and assistant. Initial consumption checked by commercial manager (invoices: internal meter reads)	н	HIGHEST			
Fuel Consumption totals	Conversion of STP to NTP done? (Standard Temperature & Pressure) (Normal Temperature & Pressure)	Incorrect calculation; failure to convert	Yes	М	L	М	Done automatically within the spread sheet	L	LOW			
Determination of NCV	Data transfer, calculation	Data transfer errors, incorrect tags, missing data, missing invoices, data entry errors, calculation errors, incorrect totals	Yes	Н	М	Н	Net Calorific Value (NCV) calculation determined b=via online analysis and downloaded into detailed spreadsheet	н	HIGHEST			
Determination of emission factor	Data transfer, calculation	Data transfer errors, incorrect tags, missing data, missing invoices, data entry errors, calculation errors, incorrect totals	Yes	Н	L	н	Calculation based upon ISO6974; compressibility factor included Raw data linked automatically to calculation spread sheet	М	нібн			
Determination of oxidation factor	Calculation errors	Calculation errors, processing errors, inaccuracy	Yes	М	L	М	Use of competent staff Default values selected	M	MEDIUM			
Selection & transfer of Default Factors	Data transfer, calculation	Incorrect default; data transfer error; incorrect units	Yes	Н	М	н	Updated factors taken from DECC website	М	HIGH			

Calculation of	Calculation of :	Calculation errors,	Yes	н м	H	Standard templates and separation of responsibilities	M	HIGH	1		
CO2 values	Activity data x EF x NCV	processing errors,				for input, calculation and QA/QC					
		inaccuracy									
		·									
Data reporting	Data transfer to AER Template	Data transfer error,	Yes	H M	н	Transfer process done by####	M	HIGH			
		missing information									
Additional Item	Additional Item - insert any data flow										
1	element not included in the list above										
Additional Item	Additional Item - insert any data flow										
2	element not included in the list above				I						

USING THE TABLE BELOW AS A TEMPLATE, INSERT MORE COPIES OF THE TABLE IF NEEDED FOR ADDITIONAL SOURCE STEAMS TO BE ANALYSED

							<u>-</u>							
Table No.		Fuel/Source Stream :												
Activity	Description	Type of Risk	Relevant to		Inherent Risk		Verifier Assessment of client control activities &	Control		Verification Test Plan &	Results of Testing &	Evidence	Residual Risk	Finding transferred to
			this data				effectiveness	Risk	(& so depth of	Sampling Plan	Verification Comments	Reference	Acceptable?	Issues Log ?
(A)	(B)	(C)	flow?	Severity	Likelihood	Risk			Verification	(if applicable)	X reference to Document List			
									Activity Required)		List			
Measurement of	Installed equipment are appropriate?	Incorrect measurements												
flow														
Measurement of	If applicable - deduction meters from this	Incorrect measurements												
flow	source are appropriate?													
flow	Installed equipment location is appropriate?	Incorrect measurements												
	Installed equipment uncertainty acceptable?	Incorrect measurement,												
flow		non compliance with tier												
	Equipment Calibration and Maintenance?	Incorrect measurement												
flow	Equipment failure?	Missing data,												
flow	Equipment failures	Incompleteness. Incorrect												
	Alternative methods?	Missing data, Non												
flow	rateriative methods.	compliance with tier.												
	Manipulation of source data to produce	Incorrect conversion												
flow	consumption?	factors or other errors in												
Fuel sampling	Location & Frequency of sampling	Unrepresentative samples,												
Fuel analysis	Methodology appropriate?	Incorrect analysis												
Fuel analysis	Calibration appropriate?	Incorrect calibration ,												
Fuel	Manual or automatic data transfer errors	Data transfer errors,												
Consumption		incorrect tags, missing												
totals		data, missing invoices.												
Fuel	Conversion of STP to NTP done?	Incorrect calculation;												
Consumption		failure to convert												
totals	(Standard Temperature & Pressure)													
	(Normal Temperature & Pressure)													
Determination	Data transfer, calculation	Data transfer errors,												
of NCV		incorrect tags, missing												
Determination	Data transfer, calculation	Data transfer errors,												
of emission		incorrect tags, missing												
<u>factor</u> Determination	Calculation errors	data, missing invoices.												
	Calculation errors	Calculation errors,												
of oxidation		processing errors,												
factor Selection &	Data transfer, calculation	inaccuracy Incorrect default; data												
transfer of	Data transfer, calculation													
Default Factors		transfer error; incorrect												
Calculation of	Calculation of :	Calculation errors,												
CO2 values	Activity data x EF x NCV	processing errors.												
Data reporting	Data transfer to AER Template	Data transfer error.												
Additional Item	Additional Item - insert any data flow													
1	element not included in the list above													
Additional Item	Additional Item - insert any data flow													
2	element not included in the list above													