

Checks	Original	User friendly text	Crucial check	QA blocker as implemented in CDR	Status/Note	Review in 2016
1	aqd:AQD_ReportingHeader element must be present.	XML must include Reporting Header	Yes	<b>Error</b>		System requirement
2	The (start) year value must be equal to the year specified in (aqd:AQD_ReportingHeader) in the XML file and it must be between 2014 - 2015.	The envelop starting year must match the specific year within Reporting Header in the XML	Yes	<b>Error</b>		System requirement
3	aqd:AQD_ReportingHeader must include aqd:inspireId, aqd:reportingAuthority, aqd:change elements	The following elements must be included within Reporting Header (inspire Id, reporting authority and change element)	Yes	<b>Error</b>		System requirement
4	For aqd:AQD_ReportingHeader, if aqd:change='true', the following information must also be provided: aqd:AQD_ReportingHeader/aqd:changeDescription and aqd:AQD_ReportingHeader/aqd:content	For aqd:AQD_ReportingHeader, if aqd:change='true', the following information must also be provided: aqd:AQD_ReportingHeader/aqd:changeDescription and aqd:AQD_ReportingHeader/aqd:content	Yes	<b>Error</b>		System requirement
5	For aqd:AQD_ReportingHeader, if aqd:change='false', element aqd:content IS NOT expected.	For aqd:AQD_ReportingHeader, if aqd:change='false', element aqd:content IS NOT expected.	Yes	<b>Error</b>		System requirement

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XML	XML validation to confirm that it is both well-formed and also "valid" in that it follows a defined structure. A well-formed document follows the basic syntactic rules of XML, which are the same for all XML documents. A valid document also respects the rules dictated by XML schema ( <a href="http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view">http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view</a> )	XML validation	Yes	<b>Error</b>	Integrated into one qa check	System requirement
NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	<b>Error</b>	Integrated into one qa check	System requirement
B0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)	Yes	<b>Warning (if update), Error (if empty)</b>	Improved in v5.0	Information
B1	Compile & feedback upon the total number of AQ zone feature types included in the delivery	Number of zones reported	Yes	Info	Improved in v5.0	Information
B2	Compile & feedback upon the total number of <b>new</b> records for AQ zones included in the delivery against previous delivery	Number of new zones compared to previous report	Yes	<b>Error (if ALL localId are new)</b>	Improved in v5.0	System requirement
B3	Compile & feedback upon the total number of <b>existing</b> records for AQ zones included in the delivery against previous delivery	Number of existing zones compared to previous report	Yes	Info	Improved in v5.0	System requirement
B4	Compile & feedback upon all reported zones. Feedback report shall include the gml:id attribute, am:inspireId, am:name/gn:GeographicalName/gn:spelling/gn:text & aqd:zoneCode elements as available.	List reported zones	Yes	Info	Updated in 4.0	Information
B5	Compile & feedback upon the total number of modification to existing for AQ zone feature types included in the delivery, including ./aqd:predecessor information Report if the object xlink via aqd:predecessor is not found within the current or previous deliveries (aqd:AQD_Zone)			Not implemented	Improved in v5.0	IPR requirement (Annex II-B-8)
B6a	The number of zones designated with coordinates via the ./am:geometry element	Number of zones that provides coordinates inside the xml via geometry element	Yes	Info	used to be B3	Information
B6b	The number of zones designated with coordinates via the ./aqd:LAU element and the ./aqd:shapefileLink element	Number of zones that provides coordinates via Local Administrative Units (LAU) element and external shapefile link	Yes	Info	used to be B4	Information
B7	List of unique combinations of aqd:aqdZoneType, aqd:pollutantCode and aqd:protectionTarget	Number of unique combinations of zone types, pollutants and protection target		Info		Information
B8	Check and count expected combinations of Pollutant and ProtectionTarget Sulphur dioxide (1) + health Sulphur dioxide (1) + vegetation Ozone (7) + health Ozone (7) + vegetation Nitrogen dioxide (8) + health Nitrogen oxides (9) + vegetation Particulate matter < 10 µm (5) + health Particulate matter < 2.5 µm (6001) + health Carbon monoxide (10) + health Benzene (20) + health Lead in PM10 (5012) + health Arsenic in PM10 (5018) + health Cadmium in PM10 (5014) + health Nickel in PM10 (5015) + health Benzo(a)pyrene in PM10 (5029) + health	Check and count expected combinations of Pollutant and ProtectionTarget	Yes	<b>Error</b>	New	SYSTEM & INSPIRE requirement
B9	All gml:id attributes, am:inspireId and aqd:inspireId elements shall have unique content	Internal XML and INSPIRE identifiers must be unique (gml:id, base:localId)	Yes	<b>Error</b>		SYSTEM & INSPIRE requirement
B10	./am:inspireId/base:Identifier/base:namespace List base:namespace and count the number of base:localId assigned to each base:namespace.	List unique namespaces used and count number of elements	Yes	Info	FINE	INSPIRE requirement
B10.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	<b>Error</b>	NEW	System requirement
B11	./am:name attribute xsi:nil="false"			Not implemented		
B12	./am:name/gn:GeographicalName attribute xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0"			Not implemented		
B13	/aqd:AQD_Zone/am:name/gn:GeographicalName/gn:language value shall be the language of the name, given as a three letters code, in accordance with either ISO 639-3 or ISO 639-5.	The geographical language code must correspond to either the ISO 639-3 or ISO 639-5.		<b>Warning</b>		INSPIRE requirement
B14						
B15						
B16						
B17						
B18	./am:name/gn:GeographicalName/gn:spelling/gn:SpellingOfName/gn:text shall return a string	The geographical language text must be a string	Yes	<b>Error</b>	Implemented v5.0	IPR requirement (Annex II-B-4)

B19	<code>./am:name/gn:GeographicalName/gn:spelling/gn:SpellingOfName/gn:script</code> attribute <code> xsi:nil="true" nilReason="unknown"</code>			Not implemented		INSPIRE requirement
B20	<code>./am:geometry/gml:Polygon, ./am:geometry/gml:Point, ./am:geometry/gml:MultiPoint, ./am:geometry/gml:MultiSurface, ./am:geometry/gml:Grid, ./am:geometry/gml:RectifiedGrid</code> the <code>srsName</code> attribute shall be a recognisable URN. The following 3 <code>srsNames</code> are expected <code>urn:ogc:def:crs:EPSG::3035</code> or <code>urn:ogc:def:crs:EPSG::4258</code> or <code>urn:ogc:def:crs:EPSG::4326</code>	The coordinate reference system for the zones must be defined with a correct uniform resource name	Yes	Error	Implemented v5.0	IPR requirement (Annex II-B-6)
B21	<code>./am:geometry/gml:Polygon, ./am:geometry/gml:Point, ./am:geometry/gml:MultiPoint, ./am:geometry/gml:MultiSurface, ./am:geometry/gml:Grid, ./am:geometry/gml:RectifiedGrid, ./am:geometry/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList</code> the <code>srsDimension</code> attribute shall resolve to "2" to allow the x & y-coordinate of the feature of interest	The dimension attribute must be given the value "2"		Warning	Need implementing	IPR requirement (Annex II-B-6)
B22	<code>./am:geometry/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList</code> the <code>count</code> attribute shall resolve to the sum of y & x;coordinate doublets.	The count attribute must be equal to the Y and X coordinate doublets	Yes	Error	ERROR due to Technical reasons (can't process if gml post not correctly formulate)	IPR requirement (Annex II-B-6)
B23	Check that the coordinates lists in <code>./am:geometry/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList</code> ar presented in lat / long (y,axis / x,axis) notation.	The coordinates must be ordered as latitude (y-axis) ,longitude (x-axis)	Yes	Error	Exception: France	IPR requirement (Annex II-B-6)
B24	<code>./am:zoneType</code> value shall resolve to <a href="http://inspire.ec.europa.eu/codelist/ZoneTypeCode/airQualityManagementZone">http://inspire.ec.europa.eu/codelist/ZoneTypeCode/airQualityManagementZone</a> (working URL)	Zone type must conform to <a href="http://inspire.ec.europa.eu/codelist/ZoneTypeCode/airQualityManagementZone">http://inspire.ec.europa.eu/codelist/ZoneTypeCode/airQualityManagementZone</a>		Warning	Updated 4.0	INSPIRE requirement
B25	<code>./am:designationPeriod/gml:TimePeriod/gml:beginPosition</code> shall be less than <code>./am:designationPeri/gml:TimePeriod/gml:endPosition</code> .	Start time must be less than end time	Yes	Error		IPR requirement (Annex II-B-7)
B26	<code>./am:designationPeriod/gml:TimePeriod/gml:endPosition</code> equal to <code>indeterminatePosition="unknown"/</code> shall indicate the zone is operational.	If end time is 'unknown,' then the zone is active		Not implemented		IPR requirement (Annex II-B-7)
B27	<code>./am:designationPeri/gml:TimePeriod/gml:endPosition</code> with valid content (historical content) shall indicate that the zone is no longer operational.	If end time is displayed, the zone is no longer active		Not implemented		IPR requirement (Annex II-B-7)
B28	<code>./am:beginLifespanVersion</code> shall be a valid historical date for the start of the version of the zone in extended ISO format. If an <code>am:endLifespanVersion</code> exists its value shall be greater than the <code>am:beginLifespanVersion</code>	End date must be greater than start date, if end date exists	Yes	Error		INSPIRE requirement
B29	<code>./am:beginLifespanVersion</code> shall be LESS THAN OR EQUAL TO <code>./am:designationPeriod/gml:TimePeriod/gml:endPosition</code> <code>./am:beginLifespanVersion</code> shall be GREATER THAN OR EQUAL TO <code>./am:designationPeriod/gml:TimePeriod/gml:beginPosition</code>	Start date shall be less, or equal to	Yes	Not implemented		
B30	<code>./am:environmentalDomain</code> shall be a citation via href xlink attribute of <a href="http://inspire.ec.europa.eu/codelist/MediaValue/[code]">http://inspire.ec.europa.eu/codelist/MediaValue/[code]</a> (currently resolves to 404 error)	Enviromental Domain must conform to <a href="http://inspire.ec.europa.eu/codelist/MediaValue/[code]">http://inspire.ec.europa.eu/codelist/MediaValue/[code]</a>		Warning		INSPIRE requirement
B31	<code>./am:legalBasis/base2:LegislationCitation/base2:name</code> value shall be "2011/850/EC"	Legislation citation name must be "2011/850/EC"		Warning		INSPIRE requirement
B32	<code>./am:legalBasis/base2:LegislationCitation/base2:date</code> value shall be "2011;12;12"	Legislation citation date must be "2011-12-12"		Warning		INSPIRE requirement
B33	<code>./am:legalBasis/base2:LegislationCitation/base2:link</code> value shall be " <a href="http://rod.eionet.europa.eu/instruments/650">http://rod.eionet.europa.eu/instruments/650</a> "	Legislation citation line must be " <a href="http://rod.eionet.europa.eu/instruments/650">http://rod.eionet.europa.eu/instruments/650</a> "		Warning		INSPIRE requirement
B34	<code>./am:legalBasis/base2:LegislationCitation/base2:level</code> shall be a citation via href xlink attribute of <a href="http://inspire.ec.europa.eu/codelist/LegislationLevelValue/[code]">http://inspire.ec.europa.eu/codelist/LegislationLevelValue/[code]</a>	Base level must conform to <a href="http://inspire.ec.europa.eu/codelist/LegislationLevelValue/[code]">http://inspire.ec.europa.eu/codelist/LegislationLevelValue/[code]</a>		Warning		INSPIRE requirement
B35	<code>./aqd:zoneCode</code> shall be a unique code for the zone within the <code>./am:inspireId/base:Identifier/base:namespace</code> . <code>./aqd:zoneCode</code> . The value may equal the value at <code>./am:inspireId/base:Identifier/base:localId</code>	Zone code must be unique. The value may e equal the LocalId	Yes	Error		IPR requirement (Annex II-B-3)
B36	<code>./aqd:residentPopulation</code> shall be an integer value GREATER THAN 0 (zero)	Population must be a value higher than zero	Yes	Error	Updated in v4.0.2	IPR requirement (Annex II-B-9)
B37	<code>./aqd:residentPopulationYear/gml:TimeInstant/gml:timePosition</code> shall cite the year in which the resident population was estimated in yyyy format	Year in which the resident population was estimated must have the format yyyy		Warning		IPR requirement (Annex II-B-10)
B38	<code>./aqd:area</code> the value will be a decimal number GREATER THAN 0 (zero)	The Area value must be a decimal number, greater than zero.	Yes	Error		NOT required

B39a	<p>The allowed content combination within  ./aqd:pollutants/aqd:Pollutant/aqd:pollutantCode AND  ./aqd:pollutants/aqd:Pollutant/aqd:protectionTarget  shall be constrained to</p> <p>Sulphur dioxide (air) + health <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a></p> <p>Sulphur dioxide (air) + vegetation  <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V</a></p> <p>Ozone (air) + health  <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a></p> <p>Ozone (air) + vegetation  <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V</a></p> <p>Nitrogen dioxide Nitrogen dioxide (air) + health  <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a></p> <p>Nitrogen oxides (air) + eco <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9</a>  <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V</a></p> <p>Particulate matter &lt; 10 µm (aerosol) + health</p>	Check for correct Pollutant/ProtectionTarget combination	AQ	Warning	New implementation	
B39b	<p>Count number of occurrences across XML and list it as below (it can not be 0)</p> <p>Sulphur dioxide (1) + health  Sulphur dioxide (1) + vegetation  Ozone (7) + health  Ozone (7) + vegetation  Nitrogen dioxide (8) + health  Nitrogen oxides (9) + vegetation  Particulate matter &lt; 10 µm (5) + health  Particulate matter &lt; 2.5 µm (6001) + health  Carbon monoxide (10) + health  Benzene (20) + health Lead in PM10 (5012) + health  Arsenic in PM10 (5018) + health  Cadmium in PM10 (5014) + health  Nickel in PM10 (5015) + health  Benzo(a)pyrene in PM10 (5029) + health  One exception:  Nitrogen oxides (9) + vegetation can be 0 for Gibraltar</p>	Check if at least one of the expected Pollutant/ProtectionTarget combination(s) is provided in the delivery	Yes	Error	New implementation	
B39c	Check if any combination in B39a is repeated within individual AQD:Zone . An error is returned if repeated.	Check and list if any individual zone with any duplicated Pollutant/ProtectionTarget combination	Yes	Error	New implementation	System requirement
B40	<p>IF aqd:reportingPeriod included in the ReportingHeader is equal or greater than year 2015, ./aqd:timeExtensionExemption must resolve to <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/none">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/none</a></p> <p>Only 1 entry is allowed.</p> <p>Else  ./aqd:timeExtensionExemption attribute must resolve to one of concept within <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/...</a></p> <p>Multiple entries are allowed.</p>	ExtensionExemption accepted prior to 2015 deliveries		Warning	Updated	IPR requirment (Annex II-B-13)

B41	Where ./aqd:timeExtensionExemption resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/NO2_1h">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/NO2 1h</a> OR <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/NO2_annual">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/NO2 annual</a> at least one combination within ./aqd:pollutants which includes ./aqd:pollutants/aqd:Pollutant/aqd:pollutantCode AND ./aqd:pollutants/aqd:Pollutant/aqd:protectionTarget shall be constrained to Nitro gen dioxide Nitrogen dioxide (air) + health <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a>	Where AQTimeExemption is either NO2-1h, or NO2-annual, then NO2 and Protection Target Health must be present	Yes	Error		Content check according to Article 22 of Directive 2008/50/EC
B42	Where ./aqd:timeExtensionExemption resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/PM10-24h">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/PM10-24h</a> OR <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/PM10-annual">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/PM10-annual</a> at least one combination within ./aqd:pollutants which includes ./aqd:pollutants/aqd:Pollutant/aqd:pollutantCode AND ./aqd:pollutants/aqd:Pollutant/aqd:protectionTarget shall be constrained to Particulate matter < 10 µm (aerosol) + health <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a>	Where AQTimeExemption is either PM10-24h, or PM10-annual, then PM10 and Protection Target Health must be present.	Yes	Error		Content check according to Article 22 of Directive 2008/50/EC
B43	Where ./aqd:timeExtensionExemption resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/C6H6-annual">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/C6H6-annual</a> at least one combination within ./aqd:pollutants which includes ./aqd:pollutants/aqd:Pollutant/aqd:pollutantCode AND ./aqd:pollutants/aqd:Pollutant/aqd:protectionTarget shall be constrained to Benzene (air) + health <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H</a>	Where AQTimeExemption is C6H6-annual, then C6H6 and Protection Target Health must be present.	Yes	Error		Content check according to Article 22 of Directive 2008/50/EC
B44	Where ./aqd:LAU has been used the list of the administrative these shall be checked to ensure they relate to the MS. This must be provided if /aqd:shapefileLink is not provided or am:geometry does not contain geometry.  The value shall be a valid code from the following codelist: <a href="http://dd.eionet.europa.eu/vocabulary/common/nuts/">http://dd.eionet.europa.eu/vocabulary/common/nuts/</a> <a href="http://dd.eionet.europa.eu/vocabulary/lau1/">http://dd.eionet.europa.eu/vocabulary/lau1/</a> <a href="http://dd.eionet.europa.eu/vocabulary/lau2/">http://dd.eionet.europa.eu/vocabulary/lau2/</a>  NUTS, LAU1 or LAU2 codes must belong to the country reporting data. Country ISO code at <a href="http://cdr.eionet.europa.eu/ZZ/eu/aqd/b/...">cdr.eionet.europa.eu/ZZ/eu/aqd/b/...</a> shall be the same as the codelist: <a href="http://dd.eionet.europa.eu/vocabulary/common/nuts/ZZ[concept]">http://dd.eionet.europa.eu/vocabulary/common/nuts/ZZ[concept]</a> <a href="http://dd.eionet.europa.eu/vocabulary/lau1/zz/[concept]">http://dd.eionet.europa.eu/vocabulary/lau1/zz/[concept]</a> <a href="http://dd.eionet.europa.eu/vocabulary/lau2/zz/[concept]">http://dd.eionet.europa.eu/vocabulary/lau2/zz/[concept]</a> (exception of gb which has lau and nut codeas as uk)		Skipped	Not implemented		Not implemented
B45	./am:geometry shall not be a href xlink. If geometry is provided via shapefile, please use element aqd:shapefileLink	Geometry should not be a hyperlink. If provided via shapefile, element aqd:shapefileLink need to be used		Warning		
B46	Where ./aqd:shapefileLink has been used this should return a link to a valid and existing link in cdr (e.g. <a href="http://cdr.eionet.europa.eu/es/eu/aqd/b/envurng9g/ES_Zones_2014.shp">http://cdr.eionet.europa.eu/es/eu/aqd/b/envurng9g/ES_Zones_2014.shp</a> )	Where a link is provided, it should refer to an existing and valid shape file in the same folder in the CDR as the XML is uploaded	Yes	Error	This is required for correctly processing geometries	IPR requirement(Annex II-B-6)
B47	./aqd:aqdZoneType attribute must resolve to one of concept within <a href="http://dd.eionet.europa.eu/vocabulary/aq/zoneType/[concept]">http://dd.eionet.europa.eu/vocabulary/aq/zoneType/[concept]</a>  Currently, these are: <a href="http://dd.eionet.europa.eu/vocabulary/aq/zoneType/noagg">http://dd.eionet.europa.eu/vocabulary/aq/zoneType/noagg</a> or <a href="http://dd.eionet.europa.eu/vocabulary/aq/zoneType/agg">http://dd.eionet.europa.eu/vocabulary/aq/zoneType/agg</a>	Zone type must be either Agglomeration or Non-agglomeration		Error		

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NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	Error	Integrated into one qa check	System requirement
C0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)	Yes	Warning (if update), Error (if empty)	New	Information
C1	Compile & feedback upon the total number of AQ Assessment Regime feature types	Number of Assessment Regimes reported		Error if empty	Improved in v5.0	INFORMATION
C2	Compile & feedback upon the total number of new records for AQ Assessment Regime feature types included in the delivery. <b>ERROR will be returned if XML is a new delivery and localId are not new compared to previous deliveries.</b>	Number of new Assessment Regimes compared to previous report. ERROR will be returned if XML is a new delivery and localId are not new compared to previous deliveries	Error, new delivery but re-using localId from previous	Error	Improved in v5.0	
C3	Compile & feedback upon the total number of modifications to previously reported AQ Assessment Regime feature types included in the delivery <b>ERROR will be returned if XML is an update and ALL localId (100%) are different to previous delivery (for the same YEAR).</b>	Number of existing Assessment Regimes compared to previous report. ERROR will be returned if XML is an update and ALL localId (100%) are NEW to previous delivery (for the same YEAR).	Error, updated delivery but all localId are new	Error	Error, updated delivery but all localId are new	
C4	All gml:id attributes shall have unique content within the document or namespace	gml:id must be unique within the XML document	Yes	Error	XML would also fail validation	XML requirement
C5	./aqd:inspireId/base:Identifier/base:localId shall be an unique code for the assessment regime.	Local Id shall be unique for the assessment regime.	Yes	Error		INSPIRE/system requirement
C6	./aqd:inspireId/base:Identifier/base:namespace List base:namespace and count the number of elements	List unique namespaces used and count number of elements	Yes	Info	Updated in 4.0	INSPIRE/system requirement
C6.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespaces/view">http://dd.eionet.europa.eu/vocabulary/aq/namespaces/view</a> )	Check namespace is registered	Yes	Error	NEW	System requirement
C7	Each of the number of /aqd:AQD_AssessmentRegime records shall contain 1 /aqd:EnvironmentalObjective	Each Assessment Regime shall have one Environmental Objective element	Yes	Error	aqd:AQD_AssessmentRegime/aqd:assessmentThreshold [Cardinality 0..* to 0..1]	IPR/system requirement
C8	./aqd:pollutant xlink:href attribute may resolve to one of <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5012">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5012</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5014">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5014</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5015">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5015</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5018">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5018</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5029">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5029</a>	Assessment regimes must be reported all expected pollutants	Yes	Error		IPR requirement (Annex II-C-4)
C9	Count on unique pollutants when Assessment regime(s)'s aqd:objectiveType xlink:href attribute may resolve to one of	Count number of Assessment Regimes for pollutants with Monitoring Objective		Info	Updated in 4.0 Futher update in 4.0.2	IPR requirement (Annex II-C-4)
C10	Check that EnvironmentalObjective (ObjectiveType+ReportingMetric+ProtectionTarget) combination is valid	Check valid combination of pollutant/EnvironmentalObjective (Objective/ProtectionTarget/ReportingMetric). Error if unexpected combination	Yes	Error	Updated in v5.0 to use EnvObjective vocabulary	IPR requirement (Annex II-C-4 + Annex II-C-5)
C11					inc C10	Content check
C12					inc C10	Content check
C13					inc C10	Content check
C14					inc C10	Content check
C15					inc C10	Content check
C16					inc C10	Content check
C17					inc C10	Content check
C18					inc C10	Content check
C19					inc C10	Content check

C20	Provide any missing combination of Pollutant/EnvironmentalObjective according to vocabulary <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/</a> (Exceptions: when ObjectiveType = .../MO + .../LVMOT + .../LVmaxMOT & those combinations when "Exceedance threshold" within the vocabulary is populated)	Check and list any missing combination of pollutant/EnvironmentalObjective. Error if combination missing	Yes	<b>Error</b>	Updated	IPR requirement (Annex II-C-4 + Annex II-C-5) + correct content check vs AQD/IPR
C21	Assess correctness of <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:exceedanceAttainment</a> depending on combination <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">aqd:pollutant + aqd:objectiveType + aqd:reportingMetric + aqd:protectionTarget</a> against vocabulary <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/</a>	Check Assessment Threshold Classification according to the allowed combination	Yes	<b>Warning</b>	Updated in v4.0.2	IPR requirement (Annex II-C-6) + correct content check vs AQD/IPR
C22	<a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:pollutant xlink:href</a> attribute may resolve to one of codes in the vocabulary	Pollutant must be a registered under vocabulary			Included in C21	
C23a	<a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:assessmentType</a> xlink:href attribute shall resolve to a text description of Assessment Type	The assessment type shall be either "Fixed Measurement," "modelling," "Indicative Measurement" or "Objective Estimation."	Yes	<b>Error</b>	Updated	IPR requirement (Annex II-C-9)
C23b	<a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:assessmentTypeDescription</a> resolve to a text description of Assessment Type	A textual description of assessment type is expected		<b>Warning</b>	New in v4.0.2 Needs to be implemented	IPR requirement (Annex II-C-9) <a href="https://taskman.eionet.europa.eu/issues/72746">https://taskman.eionet.europa.eu/issues/72746</a>
C24	The assessment methods referenced by <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:modelAssessmentMetadata</a> xlink:href attribute shall resolve to a traversable link to an assessment method <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_Model</a> reported under <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">cdr.eionet.europa.eu/ZZ/eu/aqd/d/...</a> (The href is made using "namespace"/"localId")	When providing a link to model or objective estimation(s), a valid link must be provided	Yes (crosscheck)	<b>Error</b>	Implemented in xref checks	IPR requirement (Annex II-C-11)
C25	The assessment methods referenced by <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata</a> xlink:href attribute shall resolve to a traversable link to an assessment method <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_SamplingPoint</a> reported under <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">cdr.eionet.europa.eu/ZZ/eu/aqd/d/...</a> (The href is made using "namespace"/"localId")	When providing a link to fix or indicative measurement(s), a valid link must be provided	Yes (crosscheck)	<b>Error</b>	Implemented in xref checks	IPR requirement (Annex II-C-12)
C26	The assessment methods referenced by <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:modelAssessmentMetadata</a> or <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata</a> xlink:href attribute shall contain one element <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:observingTime/gml:TimePeriod/gml:endPosition</a> or <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:observingTime/gml:TimePeriod/gml:endPosition</a> that is operational within the <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">aqd:reportingPeriod</a> included in the ReportingHeader	Any assessment method used under Assessment must be operational within the Reporting Period	Yes (crosscheck)	<b>Warning</b>	IMPORTANT – UPDATED in 4.0	Crosscheck to ensure Method operational within Reporting Year
C27	The number of unique zones cited by <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_AssessmentRegime</a> shall be EQUAL to the number of unique zones in <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:AQD_Zone</a> for the same ReportingYear	The number of zones must be the same as cited in the AssessmentRegime (for the same Reporting Year)	Yes (crosscheck)	<b>Warning</b>	Improved in cdr (swaped with C29) and reporting year added	IPR requirement (Annex II-C-3)
C28	The lifecycle information of <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">./aqd:zone xlink:href</a> shall be current, <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_Zone/am:designationPeriod/gml:TimePeriod/gml:endPosition</a> shall be greater than the begin position of the <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">aqd:reportingPeriod</a> included in the ReportingHeader  If endPosition is indeterminate (i.e. <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">&lt;gml:endPosition indeterminatePosition="unknown"/&gt;</a> ) <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">/aqd:AQD_Zone/am:designationPeriod/gml:TimePeriod/gml:beginPosition</a> shall NOT be greater than the begin position of the <a href="http://dd.eionet.europa.eu/vocabulary/eq/environmentalobjective/">aqd:reportingPeriod</a> included in the ReportingHeader	The zone linked to each Assessment Regime must be operational within the Reporting Period	Yes	<b>Error</b>		Crosscheck to ensure Zone operational within Reporting Year

C29	<p>aqd:zone xlink:href attribute shall resolve to a traversable link to an AQ zone in /aqd:AQD_Zone reported under cdr.eionet.europa.eu/ZZ/eu/aqd/b/... The /aqd:pollutant and /aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget within the Assessment Regime shall equal one combination /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:pollutantCode and /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:protectionTarget within the linked zone aqd:AQD_Zone/aqd:pollutantsException : Where /aqd:pollutant resolves to http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001 /aqd:zone xlink:href attribute MAY resolve to &lt;aqd:zone nilReason='inapplicable'/&gt;</p>	<p>Pollutant, Assessment Threshold and Environmental Objective shall equal one combination, except where where Particulate Matter 2.5, which is not applicable.</p>	Yes (crosscheck)	Warning	Improved in cdr (swaped with C27)	Crosscheck to ensure Method operational within Reporting Year
C30						
C31	<p>COUNT number zone-pollutant-target comibantion to match those in dataset B for the same reporting Year  /aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget + /aqd:pollutant + /aqd:zone combinations shall reconcile to corresponding information within /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:protectionTarget , /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:pollutantCode + /aqd:AQD_Zone/am:inspireId/base:Identifier/base:localId</p> <p>Sulphur dioxide (1) + health B vs C  Sulphur dioxide (1) + vegetation B vs C  Ozone (7) + health B vs C  Ozone (7) + vegetation B vs C  Nitrogen dioxide (8) + health B vs C  Nitrogen oxides (9) + vegetation B vs C  Particulate matter &lt; 10 µm (5) + health B vs C  Particulate matter &lt; 2.5 µm (6001) + health B vs C  Carbon monoxide (10) + health B vs C  Benzene (20) + health B vs C Lead in PM10 (5012) + health B vs C  Arsenic in PM10 (5018) + health B vs C  Cadmium in PM10 (5014) + health B vs C  Nickel in PM10 (5015) + health B vs C  Benzo(a)pyrene in PM10 (5029) + health B vs C</p>	<p>COUNT number zone-pollutant-target comibantion to match those in dataset B for the same reporting Year</p>	Yes (crosscheck)	Error	Updated in 4.0.2 if any C is greater than B = ERROR (RED) IF all B = C then OK if any C is smaller than B = WARNING	
C32	<p>/aqd:assessmentMethods/aqd:AssessmentMethods/aqd:assessmentType shall be compared with the /aqd:AQD_SamplingPoint/aqd:assessmentType for assessment method cited by /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata xlink:href attribute and/or /aqd:AQD_Model/aqd:assessmentType for assessment method cited by /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata xlink:href attribute</p> <p>The following combinations are allowed:  Within AssessmentRegime Within SamplingPoint or Model Status  fixed fixed OK  indicative indicative/fixed OK  model model OK  objective objective OK  fixed indicative/model/objective WRONG  indicative fixed/model/objective WRONG  model fixed/indicative/objective WRONG  objective fixed/indicative/model OK</p>	<p>Check Assessment Type of Assessment Methods compared to assessmentType within Assessment Regime</p>	Yes	Warning	Updated in 4.0 Needs updating see modifications in green	Cross-check coherence between C & D



C33	The lifecycle information of /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata xlink:href shall be current, /AQD_SamplingPoint/ef:operationActivityPeriod/gml:endPosition shall be operational within the aqd:reportingPeriod included in the ReportingHeader	If the Assessment Metadata lifecycle information is current, then the Operational Activity End Time shall be within ReportingPeriod	Yes	Warning	Important update, very similar to C26 (missing AQD_Model) Not included in taskman	Crosscheck to ensure Method operational within Reporting Year
C34						
C35	/aqd:AQD_SamplingPoint/aqd:usedAQD or /aqd:AQD_Model/aqd:used shall EQUAL "true" for all /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:[samplingPoint or model]AssessmentMetadata xlink:href citations	If a sampling point or a model is used in any Assessment Regime, it has to be described as TRUE for AQ Directive use	Yes	Warning		Cross-check coherence between C & D
C36	Where /aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget xlink:href attribute resolves to http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V the AQD_Station linked to shall resolve the following attribute /aqd:AQD_Station/aqd:areaClassification xlink:href to http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural  Please note that /aqd:AQD_AssessmentRegime does not link directly to /aqd:AQD_Station (The link is done via aqd:AQD_SamplingPoint): aqd:AQD_AssessmentRegime /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata attribute xlinks to aqd:AQD_SamplingPoint. aqd:AQD_SamplingPoint links to aqd:AQD_SamplingPoint via aqd:AQD_SamplingPoint/ef:broader resulting in aqd:AQD_AssessmentRegime /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata/ aqd:AQD_SamplingPoint/ef:broader/aqd:AQD_Station/aqd:areaClassification			Not implemented	Updated	Cross-check coherence between C & D
C37	There shall be only 1 record per MS where /aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget xlink:href attribute resolves to http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V the AQD_Station linked to shall resolve the following attribute /aqd:AQD_Station/aqd:areaClassification xlink:href to http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural	Where the assessment threshold is Average Exposure Indicator, there can be only 1 record.		Warning		
C38	Where /aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget xlink:href attribute resolves to http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/V the AQD_Station linked to shall resolve the following attribute /aqd:AQD_Station/aqd:areaClassification xlink:href to http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural	The cited stations under the Assessment Regime for the Average Exposure Indicator should be classified as Background.	Yes	Warning	Updated in 4.0	INFORMATION, warns if any AEI station is not background
C39				Not implemented	Updated	
C40	The total number of /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata attribute xlinks to aqd:AQD_SamplingPoint. aqd:AQD_SamplingPoint links to aqd:AQD_SamplingPoint via aqd:AQD_SamplingPoint/ef:broader resulting in aqd:AQD_AssessmentRegime /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata/ aqd:AQD_SamplingPoint/ef:broader/aqd:AQD_Station/aqd:areaClassification	All Assessment Regimes should be linked to at least one Assessment Method (either SamplingPoint or Model/ObjectiveEstimation)		Warning	Updated in 4.0 THIS CHECKS NEEDS REVIEWING	IPR requirement (Annex II-C-11)
C41	gml:timePosition MUST be provided and must be equal or greater than (aqd:reportingPeriod/aqd:reportingPeriod)	The year of the latest Classification report must be within the last 5 years according to AQ Directive		Warning	New in 4.0.2 <a href="https://taskman.eionet.europa.eu/issues/73395">https://taskman.eionet.europa.eu/issues/73395</a>	IPR requirement (Annex II-C-7)
C42	Free text shall be provided including at least 1 valid URL	A valid url should be provided linking to the latest Classification Report		Warning	New in 4.0.2 <a href="https://taskman.eionet.europa.eu/issues/73396">https://taskman.eionet.europa.eu/issues/73396</a>	IPR requirement (Annex II-C-8)

Checks	Original	User friendly text	Crucial check	QA blocker as implemented in CDR	Status/Note	Review in 2016
XML	XML validation to confirm that it is both well-formed and also "valid" in that it follows a defined structure. A well-formed document follows the basic syntactic rules of XML, which are the same for all XML documents. A valid document also respects the rules dictated by XML schema ( <a href="http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view">http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view</a> )	XML validation	Yes	Error	Integrated into one qa check	System requirement
NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	Error	Integrated into one qa check	System requirement
D0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)	Yes	Warning (if update), Error (if empty)	New	Information
D1	Compile & feedback upon the total number of each environmental monitoring feature types included in the delivery	Total number of individual element reported within this XML Document for assessment methods. Error will be returned if any of the expected elements are missing.	Yes	Error	Improved in v5.0	Information
D2	Compile and feedback upon the total number of new records for each environmental monitoring feature types included in the delivery	Total number of new records for each feature type included in the delivery. Error will be returned if all LocalIds are new.	Yes	Error	Improved in v5.0	System requirement
D3	Compile and feedback upon the total number of updated environmental monitoring feature types included in the delivery	Total number of updated records for each feature type included in the delivery. Error will be returned if all LocalIds are new.	Yes	Error	Improved in v5.0	System requirement
D4	Compile & feedback a list of the unique identifier information for each new record or modification to an environmental monitoring feature type. Feedback report shall include the gml:id attribute, ef:inspireId, aqd:inspireId, ef:name and/or ompr:name elements as available.	Full list of reported Environmental Monitoring Features within this XML Document	Yes	Info (Error if empty)	Improved in v5.0	
D5	All gml:id attributes, ef:inspireId and aqd:inspireId elements shall have unique content	Id elements must have unique content	Yes	Error	Improved in v5.0	System & INSPIRE requirement
D6	aqd:AQD_Network/ef:inspireId/base:Identifier/base:localId shall be an unique code for AQD_network and unique within the namespace.	LocalId must be a unique code for the AQD_network.	Yes	Error		IPR requirement (Annex II-D-ii-3)
D7	Count the number of unique AQD_Network (via localId) submitted within base:namespace.	List unique namespaces used and count number of Networks used.	Yes	Error		INSPIRE requirement
D7.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	Error	NEW	System requirement
D8	The content of aqd:AQD_Network/ef:mediaMonitored shall resolve to any concept in <a href="http://inspire.ec.europa.eu/codelist/MediaValue/">http://inspire.ec.europa.eu/codelist/MediaValue/</a>	Must conform to a recognised media value. These are: Air, Biota, Landscape, Sediment, Soil/Ground, Waste and Water.		Warning	Updated	
D9	The content of aqd:AQD_Network/ef:organisationLevel shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/organisationallevel/">http://dd.eionet.europa.eu/vocabulary/aq/organisationallevel/</a>	Must conform to a recognised Organisation Level. These are: International, Local, LocalAuthority, Municipality, National and Regional.		Warning	Updated in 4.0	INSPIRE requirement
D10	The content of aqd:AQD_Network/aqd:networkType shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/networktype/">http://dd.eionet.europa.eu/vocabulary/aq/networktype/</a>	If provide, must conform to a recognised network type in the vocabulary.		Warning		
D11	aqd:AQD_Network/aqd:operationActivityPeriod/gml:TimePeriod/gml:beginPosition shall be less than gml:endPosition	Start time must be before End time.	Yes	Error		IPR requirement (Annex II-D-ii-36)
D12	./ef:name shall return a string	Network name must be provided	Yes	Warning	Warning, The provision of Network name is MANDATORY. QA to be implemented	IPR requirement (Annex II-D-ii-35)
D13	Information on responsible authority for the network management must be provided	Information on responsible authority for the network management must be provided		Not implemented	Not a priority	IPR requirement (Annex II-D-ii-36)
D14	The content of /aqd:AQD_Network/aqd:aggregationTimeZone attribute shall resolve to a valid code in <a href="http://dd.eionet.europa.eu/vocabulary/aq/timezone/">http://dd.eionet.europa.eu/vocabulary/aq/timezone/</a>	Must conform to a recognised Time Zone as vocabulary . These are UTC (+01 to +06) and (-01 to -06)	Yes	Error		
D15	aqd:AQD_Station/ef:inspireId/base:Identifier/base:localId shall be an unique code within namespace	Station ID must be a unique code.	Yes	Error		IPR requirement (Annex II-D-ii-1)
D16	Count the number of unique AQD_Station (via localId) submitted within base:namespace.	List unique namespaces used and count number of Stations used.	Yes	Error		
D16.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	Error	NEW	System requirement
D17	./ef:name shall return a string	Station name must be provided	Yes	Error	Error, the provision of Station name is MANDATORY.	IPR requirement (Annex II-D-ii-6)
D18	./ef:belongsTo shall resolve to a traversable local of global URI to ../AQD_Network	Station must belong to a network		Error	Updated	System requirement
D19	The content of /aqd:AQD_Station/ef:mediaMonitored shall resolve to any concept in <a href="http://inspire.ec.europa.eu/codelist/MediaValue/">http://inspire.ec.europa.eu/codelist/MediaValue/</a>	Must conform to a recognised media value. These are: Air, Biota, Landscape, Sediment, Soil/Ground, Waste and Water.		Warning		

D20	The srsName attribute within ./ef:geometry/gml:Point shall be a recognisable URN. The following 3 srsNames are expected urn:ogc:def:crs:EPSG::3035 or urn:ogc:def:crs:EPSG::4258 or urn:ogc:def:crs:EPSG::4326	The coordinate reference system for the stations must be defined with a correct uniform resource name	Yes	Error	Added new srsName	INSPIRE requiremnt
D21	./ef:geometry/gml:Point/gml:pos srsDimension attribute shall resolve to "2" to allow the coordinate of the station.  ORDER of 2 coordinates MUST BE Latitude & Longitud when providing the accepted srsNames	The Dimension attribute shall resolve to "2" and the order must be Latitude & Longitude	Yes	Error	Exception for FR	IPR requirement (Annex II-D-ii-26)
D22	./ef:geometry/gml:Point shall resolve to within the geographic boundary or bounding box of the MS.			Not implemented		
D23	List the total number aqd:AQD_Station invalid operational activity periods ./ef:operationActivityPeriod/ef:OperationActivityPeriod/ef:activityTime/gml:TimePeriod/gml:beginPosition shall be less than gml:endPosition.	Check if the operational period for the station is correct	Yes	Error		IPR requirement (Annex II-D-ii-7)
D24	List the total number of aqd:AQD_Station which are operational ./ef:operationActivityPeriod/ef:OperationActivityPeriod/ef:activityTime/gml:TimePeriod/gml:endPosition which are unclosed (null) or have an indeterminatePosition="unknown" attribute	Total number of operational Stations		Info (Warning if empty)		
D25	./ef:operationActivityPeriod/ef:OperationActivityPeriod/ef:activityTime/gml:TimePeriod/gml:endPosition with valid content (historical content) shall indicate that the environmental monitoring feature type is no longer operational.			Not implemented		
D26	AQD_Station/aqd:EUSationCode shall be an unique code for the station starting with ISO2-country code	Station code must be unique, starting with ISO2-country code	Yes, key	Error		IPR requirement (Annex II-D-ii-2)
D27	The content of aqd:AQD_Station/aqd:meteoParams shall resolve to any concept in <a href="http://vocab.nerc.ac.uk/collection/P07/current/">http://vocab.nerc.ac.uk/collection/P07/current/</a> , <a href="http://vocab.nerc.ac.uk/collection/I01/current/">http://vocab.nerc.ac.uk/collection/I01/current/</a> , <a href="http://dd.eionet.europa.eu/vocabulary/aq/meteoparameter/">http://dd.eionet.europa.eu/vocabulary/aq/meteoparameter/</a>	Station Meterological Parameters must conform to the standard "Climate and Forecast Standard" Subset of GRIB or the Meteo parameter list eionet data dictionary		Warning	Not required; odd elment if we really need to collect met data	
D28	The content of aqd:AQD_Station/aqd:areaClassification shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/</a>	Must conform to a recognised Station Classification from the eionet data dictionary. These are: Rural, Rural-Nearcity, Rural-Regional, Rural-Remote, Suburban, Urban	Yes	Error		IPR requirement (Annex II-D-ii-28)
D29	The content of aqd:AQD_Station/aqd:dispersionLocal shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/dispersionlocal/">http://dd.eionet.europa.eu/vocabulary/aq/dispersionlocal/</a>	Must use a recognised Local description from the eionet data dictionary. These are: Canyon, Detached, Elevated and Open.		Warning		
D30	The content of aqd:AQD_Station/aqd:dispersionRegional shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/dispersionregional/">http://dd.eionet.europa.eu/vocabulary/aq/dispersionregional/</a>	Must use a recognised Regional descriptor: Alpine, Base, Basin-Hilly, Coast-Mount, Coast-Plane, Hilly, Mount, Mount-Slope, Plane, Valley-Hilly and Valley-Mount.		Warning		
D31	AQD_SamplingPoint/ef:inspireId/base:Identifier/base:localId not unique codes:	Sampling Point local Id must be unique	Yes	Error		IPR requirement (Annex II-D-ii-1)
D32	Count the number of unique AQD_SamplingPoint (via localId) submitted within base:namespace.	List unique namespaces used and count number of SamplingPoint used.	Yes	Error		INSPIRE & system requirement
D32.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	Error	NEW	System requirement
D33	The content of aqd:AQD_SamplingPoint/ef:mediaMonitored shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/inspire/MediaValue/">http://dd.eionet.europa.eu/vocabulary/inspire/MediaValue/</a>	Must conform to the code 'air' in the Media codelist in the Inspire registry		Warning		
D34	aqd:AQD_SamplingPoint/am:geometry/gml:Point the srsName attribute shall be a recognisable URN . The following 2 srsNames are expected urn:ogc:def:crs:EPSG::3035 or urn:ogc:def:crs:EPSG::4258 or urn:ogc:def:crs:EPSG::4326	The coordinate reference system for the zones must be defined with a correct uniform resource name	Yes	Error	Add new srsName	Not required under IPR. However this is rather important
D35	The srsDimension attribute within ./ef:geometry/gml:Point/gml:pos shall resolve to "2" to allow the x.y-coordinate of the station  ORDER of 2 coordinates MUST BE Latitude & Longitud when providing the accepted srsNames (see D34)	The Dimension attribute shall resolve to "2" and the order must be Latitude & Longitude	Yes	Error	Needs reviewing to ensure it checs Lat-Long	Not required under IPR. However this is rather important
D36	./ef:geometry/gml:Point/gml:pos shall resolve to within the approximate geographic location of the AQD_Station cited by .aqd:AQD_SamplingPoint ef:broader	The sampling point location shall resolve within the approximate location of the AQD_Station	Yes	Warning	Quality check	

D37	.ef:observingCapability/ef:ObservingCapability/ef:observingTime/gml:TimePeriod/gml:beginPosition shall be equal to or less than .ef:operationalActivityPeriod/ef:OperationalActivityPeriod/ef:activityTime/gml:TimePeriod /gml:endPosition  gml:TimePeriod within the multiple ef:observingCapability MUST NOT overlap which each other	Check if the operational period for the station is invalid or overlaps	Yes	Error	Quality check	
D38	./ef:observingCapability/ef:ObservingCapability/ef:processType shall resolve to http://inspire.ec.europa.eu/codelist/ProcessTypeValue/process (currently resolves to 404 error)			Not implemented		INSPIRE requirement
D39	./ef:observingCapability/ef:ObservingCapability/ef:resultNature element shall resolve to http://inspire.ec.europa.eu/codelist/ResultNatureValue/primary (currently resolves to 404 error)			Not implemented		INSPIRE requirement
D40	The content of ../ef:observedProperty shall resolve to a valid code within http://dd.eionet.europa.eu/vocabulary/aq/pollutant/ and within a unique SamplingPoint, multiple ef:observedProperty may be found. These MUST always resolve to the same code	Pollutant must be a registered under vocabulary and each SamplingPoint must be defined for a unique pollutant under all measurement configurations	Yes	Error	Updated as not working	INSPIRE requirement
D41	Cross-check with AQD_Sample (../ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest/@xlink shall resolve to a traversable local of global URI to an ../AQD_Sample)	Links between SamplingPoint and Sample shall be traceable and valid	YES, key check	Error	Updated 4.0 Works if all in one XML	System requirement
D42	Cross-check with AQD_SamplingPointProcess (../ef:observingCapability/ef:ObservingCapability/ef:procedure/@xlink shall resolve to a traversable local of global URI to ../AQD_SamplingPointProcess)	Links between SamplingPoint and SamplingPointProcess shall be traceable and valid	YES, key check	Error	Updated 4.0 Works if all in one XML	System requirement
D43	Cross-check with AQD_Station (../ef:broader/@xlink shall resolve to a traversable local of global URI to ../AQD_Station)	Links between SamplingPoint and Station shall be traceable and valid	YES, key check	Error	Updated 4.0	System requirement Works if all in one XML
D44	Cross-check with AQD_Network (aqd:AQD_SamplingPoint/ef:belongsTo shall resolve to a traversable local of global URI to ../AQD_Network)	Links between Station and Network shall be traceable and valid	YES, key check	Error	Updated 4.0 Works if all in one XML	System requirement
D44b	Cross-check with AQD_Network (aqd:AQD_Station/ef:belongsTo shall resolve to a traversable local of global URI to ../AQD_Network)	Links between SamplingPoint and Network shall be traceable and valid			removed	
D45	Total number aqd:AQD_SamplingPoint/ef:operationActivityPeriod/ef:OperationActivityPeriod/ef:activityTime/gml:TimePeriod/ invalid operational activity periods	Invalid or overlapping operational activity periods	Yes	Error		
D46	Total number of AQD_SamplingPoints which are operational	Number of operational sampling points:	Yes	Info		
D47	./ef:operationActivityPeriod/ef:OperationActivityPeriod/ef:activityTime/gml:TimePeriod/gml:endPosition with valid content (historical content) shall indicate that the environmental monitoring feature type is no longer operational.			Not implemented		
D48	./aqd:assessmentType shall resolve to http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/ via xlink:href	Check that Assessment Type conforms to: Fixed, Indicative, Model or Objective		Implemented via Check xlink references		
D49	./aqd:mainEmissionSources shall resolve to http://dd.eionet.europa.eu/vocabulary/aq/emissionsource/ via xlink:href	Check that main emission source conforms to registered vocabulary		Implemented via Check xlink references		IPR requirement (Annex II-D-ii-23)
D50	Total number/aqd:stationClassification which resolve to http://dd.eionet.europa.eu/vocabulary/aq/stationclassification/ via xlink:href	Check that Classifications conforms to: Background, Industrial or Traffic	Yes	Error		IPR requirement (Annex II-D-ii-22)
D51	Number of invalid 3 elements aqd:AQD_SamplingPoint/aqd:environmentalObjective/aqd:EnvironmentalObjective/ combinations:	Number of invalid 3 elements in Sampling Point and Environmental Objective combinations:		Warning		Not required under IPR
D52						
D53	Number of invalid aqd:AQD_SamplingPoint/aqd:zone xlink:	Check if there are any invalid link from SamplingPoint to zone(s)	Yes	Error		IPR requirement (Annex II-D-ii-22)
D54	aqd:AQD_SamplingPointProcess/ompr:inspireId/base:Identifier/base:localId not unique codes:	Local Id for Sampling Point Process must be unique	Yes	Error		
D55	Count the number of unique AQD_SamplingPointProcess (via localId) submitted within base:namespace	List unique namespaces used and count number of SamplingPointProcess(es) used.	Yes	Info		

D55.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	Error	NEW	System requirement
D56	<code>./aqd:measurementType</code> shall resolve to <a href="http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/[concept]">http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/[concept]</a>	Must conform to a recognised Measurement Type from the eionet data dictionary. These are: Active, Automatic, Passive, Remote and Unknown.	Yes	Error		IPR requirement (Annex II-D-ii-8)
D57	If <code>./aqd:measurementType</code> resolves to <code>./measurementtype/automatic</code> or <code>./measurementtype/remote</code> , <code>aqd:measurementMethod</code> shall be included and resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/measurementmethod/">http://dd.eionet.europa.eu/vocabulary/aq/measurementmethod/</a> AND <code>./aqd:samplingMethod</code> and <code>./aqd:analyticalTechnique</code> SHALL NOT BE PROVIDED	If Measurement Type is Automatic or Remote and conforms to any of the recognised measurement methods in the eionet data dictionary, then Sampling Method and Technique shall not be provided.	Yes	Warning	Content check requirement	IPR requirement (Annex II-D-ii-8+9)
D58	If <code>./aqd:measurementType</code> resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/active">http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/active</a> or <a href="http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/passive">http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/passive</a> <code>./aqd:samplingMethod</code> & <code>./aqd:analyticalTechnique</code> shall be included AND <code>./aqd:measurementMethod</code> SHALL NOT BE PROVIDED	If Measurement Type is Active or Passive then Sampling Method and Analytical Technique must be provided. Measurement method shall not be provided.	Yes	Warning	Content check requirement	IPR requirement (Annex II-D-ii-8+9+10)
D59	The content of <code>./aqd:AQD_SamplingPointProcess/aqd:analyticalTechnique</code> shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/analyticaltechnique/">http://dd.eionet.europa.eu/vocabulary/aq/analyticaltechnique/</a>	Analytical Technique must use any of the analytical technique recognised methods in the eionet data dictionary.	Yes	Error		IPR requirement (Annex II-D-ii-8+10)
D60a	The content of <code>./aqd:AQD_SamplingPointProcess/aqd:measurementType</code> shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/">http://dd.eionet.europa.eu/vocabulary/aq/measurementtype/</a>	Sampling Process and Measurement Type must use any of the measurement equipment in the eionet data dictionary.	Yes	Error		IPR requirement (Annex II-D-ii-8+10)
D60b	The content of <code>./aqd:AQD_SamplingPointProcess/aqd:samplingEquipment/aqd:SamplingEquipment/aqd:equipment</code> shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/samplingequipment/">http://dd.eionet.europa.eu/vocabulary/aq/samplingequipment/</a>	Sampling Process and Equipment must use any of the sampling equipment in the eionet data dictionary.	Yes	Error		IPR requirement (Annex II-D-ii-8+10)
D61	If <code>./aqd:AQD_SamplingPointProcess/aqd:measurementMethod/aqd:MeasurementMethod/aqd:otherMeasurementMethod</code> , <code>./aqd:AQD_SamplingPointProcess/aqd:measurementEquipment/aqd:MeasurementEquipment/aqd:otherEquipment</code> , <code>./aqd:AQD_SamplingPointProcess/aqd:samplingMethod/aqd:SamplingMethod/aqd:otherSamplingMethod</code> , <code>./aqd:AQD_SamplingPointProcess/aqd:SamplingEquipment/aqd:SamplingEquipment/aqd:otherEquipment</code> or <code>./aqd:AQD_SamplingPointProcess/aqd:analyticalTechnique/aqd:AnalyticalTechnique/aqd:otherAnalyticalTechnique</code> populated must give a warning to contact helpdesk to add new vocabulary	Please contact IPR helpdesk in order to add new vocabulary for either MeasurementMethods/MeasurementEquipment/SamplingMethod/SamplingEquipment/AnalyticalTechnique		Warning	Content check requirement	
D62	<code>./ompr:processParameter/ompr:ProcessParameter/ompr:name</code> must correspond to a valid code under <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/</a>	SamplingPointProcess parameters shall conform with registered vocabulary		Warning		
D63	Where <code>./aqd:detectionLimit</code> is resolved uom link resolving to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/uom/concentration/">http://dd.eionet.europa.eu/vocabulary/uom/concentration/</a> shall be provided	If Detection Limit is specified, then a link to a concentration value from the eionet data dictionary must be provided.	Yes	Error		IPR requirement (Annex II-D-ii-11)
D64						
D65	<code>./aqd:unit</code> shall resolve to <a href="http://dd.eionet.europa.eu/vocabulary/uom/time/">http://dd.eionet.europa.eu/vocabulary/uom/time/</a>	Time unit for process duration and cadence shall conform with registered vocabulary		Error		IPR requirement (Annex II-D-ii-14+15)
D66	<code>./aqd:numUnits</code> shall contain an integer value			Not implemented		IPR requirement (Annex II-D-ii-14+15)
D67a	Where <code>./AQD_SamplingPoint/aqd:usedAQD</code> is "true", <code>./aqd:equivalenceDemonstration/aqd:EquivalenceDemonstration/aqd:equivalenceDemonstrated</code> must resolve to <a href="http://dd.eionet.europa.eu/vocabulary/aq/equivalencedemonstrated/">http://dd.eionet.europa.eu/vocabulary/aq/equivalencedemonstrated/</a>	Sampling Process (used for compliance) was reported without or incorrect information on Equivalence demonstration.	Yes	Turn to Warning	Implemented in 4.0	IPR requirement (Annex II-D-ii-12)

D67b	<code>./aqd:equivalenceDemonstration/aqd:EquivalenceDemonstration/aqd:equivalenceDemonstrated</code> should resolve to <code>http://dd.eionet.europa.eu/vocabulary/aq/equivalencedemonstrated/</code> for all <code>SamplingPointProcess</code>	Sampling Process was reported without or incorrect information on Equivalence demonstration.	Yes	Warning	Implemented in 4.0	IPR requirement (Annex II-D-ii-12)
D68	<code>SamplingPointProcess(es)</code> declared as an equivalent method" i.e. <code>http://dd.eionet.europa.eu/vocabulary/aq/equivalencedemonstrated/yes</code> but <code>/aqd:demonstrationReport</code> not provided.	Sampling Process was declared as an equivalent method but the Demonstration Report was not provided.	Yes	Warning	Implemented in 4.0	IPR requirement (Annex II-D-ii-13)
D69	<code>SamplingPointProcess(es)</code> is missing mandatory document on Traceability and Uncertainty Estimation via <code>aqd:AQD_SamplingPointProcess/aqd:dataQuality/aqd:DataQuality/aqd:documentation</code> OR <code>./aqd:qaReport</code>	Sampling Process is missing mandatory document on Traceability and Uncertainty Estimation or QA report	Yes	Warning	Implemented in 4.0 MERGE D69 and D70 in one	IPR requirement (Annex II-D-ii-43+44)
D70						
D71	<code>aqd:AQD_Sample/ompr:inspireId/base:Identifier/base:localId</code> not unique codes:	Local Id for Sample must be unique	Yes	Error		INSPIRE requirement
D72	Count the number of unique <code>AQD_Sample</code> (via <code>localId</code> ) submitted within <code>base:namespace</code>	List unique namespaces used and count number of Sample(s) used.	Yes	Error		INSPIRE requirement
D72.1	Check that namespace is registered in vocabulary ( <code>http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</code> )	Check namespace is registered	Yes	Error	NEW	INSPIRE requirement
D73	<code>./sams:shape/gml:Point</code> the <code>srsName</code> attribute shall be a recognisable URN . The following 3 <code>srsNames</code> are expected <code>urn:ogc:def:crs:EPSG::3035</code> or <code>urn:ogc:def:crs:EPSG::4258</code> or <code>urn:ogc:def:crs:EPSG::4326</code>	The coordinate reference system for the zones must be defined with a correct uniform resource name	Yes	Error		INSPIRE/System requirement
D74	<code>./sams:shape/gml:Point</code> , the <code>srsDimension</code> attribute shall resolve to "2" to allow the coordinate of the feature of interest	The <code>srsDimension</code> attribute must be '2'.	Yes	Error		
D75	<code>./sams:shape/gml:Point/gml:pos</code> shall resolve to within the approximate geographic location of the sampling point referencing the <code>./AQD_Sample</code> record via <code>./aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest</code>	The Sample should be located near the SamplingPoint		Warning		
D76	<code>./aqd:buildingDistance</code> shall contain a numerical value, WHERE <code>./aqd:AQD_SamplingPoint/aqd:relevantEmissions/aqd:RelevantEmissions/aqd:stationClassification</code> = <code>http://dd.eionet.europa.eu/vocabulary/aq/stationclassification/traffic</code> AND <code>./aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest</code> is xlinked to this <code>./aqd:AQD_Sample</code> via <code>/aqd:inspireId/base:Identifier/base:localId</code>	Distance to building should be provided if SamplingPoint is classified as Traffic		Warning		IPR requirement (Annex II-D-ii-20)
D77	<code>./aqd:kerbDistance</code> shall contain a numerical value, WHERE <code>./aqd:AQD_SamplingPoint/aqd:relevantEmissions/aqd:RelevantEmissions/aqd:stationClassification</code> is EQUAL to <code>http://dd.eionet.europa.eu/vocabulary/aq/stationclassification/traffic</code> AND <code>./aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest</code> is xlinked to this <code>./aqd:AQD_Sample</code> via <code>/aqd:inspireId/base:Identifier/base:localId</code>	Distance to kerbside should be provided if SamplingPoint is classified as Traffic		Warning	IMPLEMENT	IPR requirement (Annex II-D-ii-21)
D78	<code>./aqd:inletHeight</code> shall contain a numerical value, uom within it shall resolve to <code>http://dd.eionet.europa.eu/vocabulary/uom/length/m</code>	Inlet Height must be in meters.	Yes	Warning	Implemented in 4.0	IPR requirement (Annex II-D-ii-19)
D79	<code>sam:sampledFeature</code> shall resolve to a traversable local of global URI to an <code>./AQD_RepresentativeArea</code> or a <code>nilReason</code> must be provided like <code>&lt;sam:sampledFeature nilReason="unknown"/&gt;</code>			Not implemented	NEW	CHECK XSD doc
D80	<code>./aqd:inspireId/base:Identifier/base:localId</code> shall be an unique code for <code>AQD_RepresentativeArea</code> and unique within namespace			Not implemented		INSPIRE requirement
D81	<code>./aqd:InspireId/base:Identifier/base:namespace</code> shall be a unique namespace identifier for the data source (within an annual e-Reporting cycle). The namespace value will be owned by the data provider of the spatial object			Not implemented		INSPIRE requirement
D81.1	Check that namespace is registered in vocabulary ( <code>http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</code> )			Not implemented		INSPIRE requirement

D82	./sam:sampledFeature shall resolve to <a href="http://sweet.jpl.nasa.gov/2.2/realm.owl#Atmosphere">http://sweet.jpl.nasa.gov/2.2/realm.owl#Atmosphere</a>			Not implemented		INSPIRE requirement
D83	The srsName attribute within ./sams:shape/gml:Point shall be a recognisable URN. The following 3 srsNames are expected urn:ogc:def:crs:EPSG::3035 or urn:ogc:def:crs:EPSG::4258 or urn:ogc:def:crs:EPSG::4326  Alternatives, like <a href="http://www.opengis.net/gml/srs/epsg.xml#4258">http://www.opengis.net/gml/srs/epsg.xml#4258</a> or EPSG:4258 should be flagged as error			Not implemented		INSPIRE/System requirement
D84	./sams:shape/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList shall resolve to within the approximate geographic location of the sampling point referencing the			Not implemented		CHECK XSD doc
D85	./sams:shape/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList srsDimension attribute shall resolve to "2" to allow the x & y-coordinate of the feature of interest.  ORDER of 2 coordinates MUST BE Latitude & Longitud when providing the accepted srsNames (see D81)			Not implemented		CHECK XSD doc
D86	./sams:shape/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList count attribute shall resolve to the sum of x-y coordinate doublets.  ORDER of 2 coordinates doublets MUST BE Latitude & Longitud when providing the accepted srsNames (see D81)			Not implemented		
D87	./sams:shape/gml:Polygon/gml:exterior/gml:LinearRing/gml:posList shall resolve to the approximate geographic location of the sampling point referencing the			Not implemented		CHECK XSD doc
D88						
D89						
D90						
D91	Each aqd:AQD_Sample reported within the XML shall be xlinkd (at least once) via aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest@xlink	All reported Sample(s) shall be used within at least one SamplingPoint	Yes	Turn to Warning	Completeness check	
D92	Each aqd:AQD_SamplingPointProcess reported within the XML shall be xlinkd (at least once) via /aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:procedure@xlink	All reported SamplingPointProcess(es) shall be used within at least one SamplingPoint	Yes	Turn to Warning	Completeness check	
D93	Each aqd:AQD_Station reported within the XML shall be xlinkd (at least once) via aqd:AQD_SamplingPoint/ef:broader@xlink	All reported Station(s) shall be used within at least one SamplingPoint	Yes	Turn to Warning	Completeness check	
D94	Each aqd:AQD_Netwok reported within the XML shall be xlinkd (at least once) via /aqd:AQD_SamplingPoint/ef:belongsTo@xlink or /aqd:AQD_Station/ef:belongsTo@xlink	All reported Networks shall be used within at least one SamplingPoint or one Station	Yes	Turn to Warning	Completeness check	

Checks	Original	User friendly text	Crucial check	QA blocker as implemented in CDR	Status/Note	Review in 2016	Specific element checked
XML	XML validation to confirm that it is both well-formed and also "valid" in that it follows a defined structure. A well-formed document follows the basic syntactic rules of XML, which are the same for all XML documents. A valid document also respects the rules dictated by XML schema ( <a href="http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view">http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view</a> )	XML validation	Yes	<b>Error</b>	Integrated into one qa check	System requirement	
NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	<b>Error</b>	Integrated into one qa check	System requirement	
M0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)	Yes	<b>Warning (if update)</b>	New	Information	
M1	Compile & feedback upon the total number of each environmental monitoring feature types included in the delivery	Total number of individual element reported within this XML Document for assessment methods (models/objective estimation)	Yes	<b>Error</b>	Improved in v5.0		/aqd:AQD_Model /aqd:AQD_ModelProcess /aqd:AQD_ModelArea
M2	Compile & feedback upon the total number of new records for each environmental monitoring feature types included in the delivery	Total number of new records for each feature type included in the delivery. Warning will be returned if all LocalIds are new.	Yes	<b>Warning</b>	Improved in v5.0		/aqd:AQD_Model /aqd:AQD_ModelProcess /aqd:AQD_ModelArea
M3	Compile & feedback upon the total number of modification to existing for each environmental monitoring feature types included in the delivery	Total number of updated records for each feature type included in the delivery. Warning will be returned if all LocalIds are new.	Yes	<b>Warning</b>	Improved in v5.0		/aqd:AQD_Model /aqd:AQD_ModelProcess /aqd:AQD_ModelArea
M4	Compile & feedback a list of the unique identifier information for each new record or modification to an environmental monitoring feature type. Feedback report shall include the gml:id attribute, ef:inspireId, aqd:inspireId, ef:name and/or ompr:name elements as available.	Full list of reported Environmental Monitoring Features within this XML Document	Yes	Info	Improved in v5.0		/aqd:AQD_Model /aqd:AQD_ModelProcess /aqd:AQD_ModelArea
M5	All gml:id attributes, ef:inspireId and aqd:inspireId elements shall have unique content	Id elements must have unique content	Yes	<b>Error</b>	Improved in v5.0		/aqd:AQD_Model /aqd:AQD_ModelProcess /aqd:AQD_ModelArea
M6	./ef:inspireId/base:Identifier/base:localId shall be an unique code for AQD_Model and unique within the namespace. It is recommended to start with "MOD" and may include ISO2-country code (e.g.: MOD-ES0001)	./ef:inspireId/base:Identifier/base:localId shall be an unique code for AQD_Model and unique within the namespace. It is recommended to start with "MOD" and may include ISO2-country code (e.g.: MOD-ES0001)	Yes	<b>Error</b>	updated in 4.0		/aqd:AQD_Model/ef:inspireId/base:Identifier/base:localId
M7	Count the number of unique AQD_Model (via localId) submitted within base:namespace.	List unique namespaces used and count number of Models used.	Yes	<b>Error</b>	updated in 4.0		/aqd:AQD_Model/ef:inspireId/base:Identifier/base:namespace
M7.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	<b>Error</b>			
M8	./ef:name shall return a string	Model name must be provided	Yes	<b>Error</b>	updated in 4.0		/aqd:AQD_Model/ef:name
M9	The content of /ef:additionalDescription shall provide brief description for the model / objective estimation method	The content of /ef:additionalDescription shall provide brief description for the model / objective estimation method		Not implemented	updated in 4.0		/aqd:AQD_Model/ef:additionalDescription
M10	The content of aqd:AQD_SamplingPoint/ef:mediaMonitored shall resolve to any concept in <a href="http://dd.eionet.europa.eu/vocabulary/inspire/MediaValue/">http://dd.eionet.europa.eu/vocabulary/inspire/MediaValue/</a>	Must conform to the code 'air' in the Media codelist in the Inspire registry		<b>Warning</b>	updated in 4.0		/aqd:AQD_Model/ef:mediaMonitored
M11	./ef:geometry shall contain a valid geometric property type, typically gml:Point, gml:MultiPoint, gml:Grid, gml:RectifiedGrid, gml:Polygon	./ef:geometry shall contain a valid geometric property type, typically gml:Point, gml:MultiPoint, gml:Grid, gml:RectifiedGrid, gml:Polygon		Not implemented	updated in 4.0		/aqd:AQD_Model/ef:geometry
M12				Removed	updated in 4.0		
M13				Removed	updated in 4.0		
M14				Removed	updated in 4.0		



M15	./ef:observingCapability/ef:ObservingCapability/ef:observingTime/gml:TimePeriod/gml:beginPosition shall be equal to or less than ./ef:operationalActivityPeriod/ef:OperationalActivityPeriod/ef:activityTime/gml:TimePeriod /gml:endPosition - <b>gml:TimePeriod within the multiple ef:observingCapability MUST NOT overlap which each other</b>	Check if the operational period for the model is invalid or overlaps	Yes	<b>Error</b>	updated in 4.0	/aqd:AQD_Model/ef:ObservingCapability/ef:observingTime/gml:TimePeriod
M16	./ef:observingCapability/ef:ObservingCapability/ef:processType shall resolve to "INSPIRE_OM_Process" via an XLINK: http://inspire.ec.europa.eu/codelist/ProcessTypeValue/process (currently resolves to 404 error)	ef:processType must conform to codelist in the Inspire registry		Not implemented	updated in 4.0	/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:processType
M17	./ef:observingCapability/ef:ObservingCapability/ef:resultNature element shall resolve to http://inspire.ec.europa.eu/codelist/ResultNatureValue/simulated (currently resolves to 404 error)	ef:resultNature must conform to codelist in the Inspire registry		Not implemented	updated in 4.0	/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:resultNature
M18	./ef:observingCapability/ef:ObservingCapability/ef:observedProperty shall resolve to a valid code within http://dd.eionet.europa.eu/vocabulary/aq/pollutant/ Within a unique AQD_Model, multiple ef:observedProperty may be found. These MUST always resolve to the same code	./ef:observingCapability/ef:ObservingCapability/ef:observedProperty shall resolve to a valid code within http://dd.eionet.europa.eu/vocabulary/aq/pollutant/ Within a unique AQD_Model, multiple ef:observedProperty may be found. These MUST always resolve to the same code	Yes	<b>Error</b>	updated in 4.0	/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:observedProperty
M19	./ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest shall resolve to a traversable link to a unique AQD_ModelArea ("namespace/localId" of the object)	Links between Model and ModelArea shall be traceable and valid	Yes	<b>Error</b>	Improved and turn to Error	/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest
M20	./ef:observingCapability/ef:ObservingCapability/ef:procedure shall resolve to a traversable local of global URI to ../aqd:AQD_ModelProcess	Links between Model and ModelProcess shall be traceable and valid	Yes	<b>Error</b>	Implemented	/aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:procedure
M21	./ef:organisationLevel attribute shall resolve to a valid code in http://dd.eionet.europa.eu/vocabulary/aq/reportinglevel/ (e.g. http://dd.eionet.europa.eu/vocabulary/aq/reportinglevel/national	ef:organisationLevel	YES. Key information.	Not implemented	updated in 4.0	/aqd:AQD_Model/ef:organisationLevel
M22				Empty		
M23	Number of invalid 3 elements aqd:AQD_Model/aqd:environmentalObjective/aqd:EnvironmentalObjective/ combinations	Number of invalid 3 elements in Model and Environmental Objective combinations:		<b>Warning</b>		/aqd:AQD_Model/aqd:environmentalObjective/aqd:EnvironmentalObjective/ dependant on /aqd:AQD_Model/ef:observingCapability/ef:ObservingCapability/ef:observedProperty
M24	/aqd:assessmentType shall resolve to http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/ via xlink:href to either http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/model_or http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/objective	Check that Assessment Type conforms to either Model or Objective	Yes	<b>Error</b>	updated in 4.0	/aqd:AQD_Model
M25	If ./aqd:usedAQD equals "true", the AQD_Model must be xlinked in at least at one /aqd:AQD_AssessmentRegime /aqd:assessmentMethods/aqd:AssessmentMethods/aqd:modelAssessmentMetadata (dataset C)		Yes	Removed	updated in 4.0	/aqd:Model/aqd:usedAQD
M26	./aqd:zone shall resolve to a traversable local of global URI to AQD_Zones via xlink:href	Check if there are any invalid link from Model to zone(s)	Yes	<b>Error</b>	updated in 4.0	/aqd:Model/aqd:zone
M27	./ompr:inspireId/base:Identifier/base:localId shall be a unique code for SamplingPointProcess and within the namespace	ModelProcess localId must be unique within the namespace	Yes	<b>Error</b>	updated in 4.0	/aqd:AQD_ModelProcess/ompr:inspireId/base:Identifier/base:localId
M28	./ompr:inspireId/base:Identifier/base:namespace shall be a unique namespace identifier for the data source (within an annual e-Reporting cycle). The namespace value will be owned by the data provider of the spatial object	List unique namespaces used and count number of ModelProcess used.	Yes	<b>Error</b>	updated in 4.0	/aqd:AQD_ModelProcess/ompr:inspireId/base:Identifier/base:namespace

M28.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered		Error			
M29	./ompr:documentation/base2:DocumentationCitation/base2:link shall resolve to a traceable URL	./ompr:documentation/base2:DocumentationCitation/base2:link shall resolve to a traceable URL	Yes	Error	updated in 4.0		/aqd:AQD_ModelProcess/ompr:documentation
M30	./ompr:name shall resolve to provide a name for the model process configuration	ModelProcess name should be provided		Warning	updated in 4.0		/aqd:AQD_ModelProcess/ompr:name
M31	./ompr:type shall resolve to a text description of the type of	./ompr:type shall resolve to a text description of the type of "process" or		Not implemented	updated in 4.0		/aqd:AQD_ModelProcess/ompr:type
M32	ompr:processParameter/ompr:ProcessParameter/ompr:name shall resolve to a valid code within <a href="http://dd.eionet.europa.eu/vocabulary/aq/modelparameter/">http://dd.eionet.europa.eu/vocabulary/aq/modelparameter/</a> &			Not implemented	updated in 4.0		/aqd:AQD_ModelProcess/ompr:processParameter
M33	If the aqd:AQD_Model/aqd:assessmentType resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/model">http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/model</a> (please note that the link between AQD_Model and AQD_ModelProcess is broken)			Not implemented			/aqd:AQD_ModelProcess/ompr:processParameter
M34	aqd:AQD_ModelProcess/aqd:description shall provide a free text description of the model - e.g. GIS-based dispersion kernel approach for 1x1km background concentrations from area source emissions, calibrated with monitoring. The contribution from point sources is estimated using a separate dispersion model and then included in the total. A bi-linear interpolation of corrected rural measurement data has been used to map regional background NOx concentrations throughout the UK.	A textual description of model process		Warning	Implemented		/aqd:AQD_ModelProcess/aqd:description
M35	/aqd:AQD_ModelProcess/aqd:temporalResolution/aqd:TimeReferences/aqd:unit shall resolve to <a href="http://dd.eionet.europa.eu/vocabulary/uom/time/">http://dd.eionet.europa.eu/vocabulary/uom/time/</a>	The unit of the temporal resolution should be provided and conform with vocabulary		Warning	Implemented		/aqd:AQD_ModelProcess/aqd:temporalResolution/aqd:TimeReferences/aqd:unit
M36	./aqd:numUnits shall contain an integer value	./aqd:numUnits shall contain an integer value		Not implemented	updated in 4.0		aqd:AQD_ModelProcess/aqd:temporalResolution/aqd:TimeReferences/aqd:numUnits
M37	./aqd:spatialResolution shall provide a free text description of the spatial resolution of the model - e.g. 1x1km background concentrations	./aqd:spatialResolution shall provide a free text description of the spatial resolution of the model - e.g. 1x1km background concentrations		Not implemented	updated in 4.0		/aqd:AQD_ModelProcess/aqd:spatialResolution
M38	./dataQualityDescription shall provide a description of the quality of the model data / objective estimation in relation to the DQOs	./dataQualityDescription shall provide a description of the quality of the model data / objective estimation in relation to the DQOs		Not implemented	updated in 4.0		/aqd:AQD_ModelProcess/dataQualityDescription
M39	./dataQualityReport shall provide a traceable URL (Note to data provider, the url should lead to a report describing the data quality equaluation process)	Check Data Quality Report is provided via a traceable URL	Yes	Error	updated in 4.0		/aqd:AQD_ModelProcess/dataQualityReport
M40	./aqd:inspireId/base:Identifier/base:localId shall be a unique code for AQD_Sample and unique within the namespace	ModelArea localId must be unique within the namespace	Yes	Error	updated in 4.0		/aqd:AQD_ModelArea/aqd:inspireId/base:Identifier/base:localId
M41	./aqd:inspireId/base:Identifier/base:namespace shall be a unique namespace identifier for the data source (within an annual e-Reporting cycle). The namespace value will be owned by the data provider of the spatial object and will be registered in the INSPIRE External Object Identifier Namespaces Register	List unique namespaces used and count number of ModelArea used.	Yes	Error	updated in 4.0		/aqd:AQD_ModelArea/aqd:inspireId/base:Identifier/base:namespace
M41.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/vocabulary/aq/namespace/view">http://dd.eionet.europa.eu/vocabulary/aq/namespace/view</a> )	Check namespace is registered	Yes	Error			/aqd:AQD_ModelArea/aqd:inspireId/base:Identifier/base:namespace
M42	Check on ./sam:sampledFeature to be skipped. This element is not relevant and might contain xlink to <a href="http://sweet.jpl.nasa.gov/2.2/realm.owl">http://sweet.jpl.nasa.gov/2.2/realm.owl</a> or <code>&lt;sam:sampledFeature nilReason="inapplicable" xsi:nil="true"/&gt;</code>		No	Not implemented	updated in 4.0		/aqd:AQD_ModelArea/sam:sampledFeature

M43	/sams:shape/gml:Polygon, ./sams:shape/gml:Point, ./sams:shape/gml:MultiPoint, ./sams:shape/gml:MultiSurface, ./sams:shape/gml:Grid, ./sams:shape/gml:RectifiedGrid the srsName attribute shall be a recognisable URN. The following 3 srsNames are expected urn:ogc:def:crs:EPSG::3035 or urn:ogc:def:crs:EPSG::4258 or urn:ogc:def:crs:EPSG::4326	The coordinate reference system for the ModelArea must be defined with a correct uniform resource name	Yes	<b>Error</b>	updated in 4.0		/aqd:AQD_ModelArea/sams:shape
M44	./sams:shape shall contain a valid geometric property type, typically gml:Point, gml:MultiPoint, gml:MultiSurface, gml:Grid, gml:RectifiedGrid, gml:Polygon	./sams:shape shall contain a valid geometric property type, typically gml:Point, gml:MultiPoint, gml:MultiSurface, gml:Grid, gml:RectifiedGrid, gml:Polygon		Not implemented	updated in 4.0		/aqd:AQD_ModelArea/sams:shape
M45	.../gml:posList the count attribute shall resolve to the sum of y & x;coordinate doublets.	The count attribute must be equal to the Y and X coordinate doublets		<b>Error</b>			/aqd:AQD_RepresentativeArea/sams:shape /
M46	Check that the coordinates lists in .../gml:posList ar presented in lat / long (y;axis / x;axis) notation.	The coordinates must be ordered as latitude (y-axis) ,longtitude (x-axis)		<b>Error</b>			/aqd:AQD_RepresentativeArea/sams:shape /

Checks	Original	User friendly text	Crucial check	QA blocker as implemented in CDR	Status/Note	Review in 2016
XML	XML validation to confirm that it is both well-formed and also "valid" in that it follows a defined structure. A well-formed document follows the basic syntactic rules of XML, which are the same for all XML documents. A valid document also respects the rules dictated by XML schema ( <a href="http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view">http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view</a> )	XML validation	Yes	<b>Error</b>	Integrated into one qa check	System requirement
NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	<b>Error</b>	Integrated into one qa check	System requirement
E0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)	Yes	<b>Warning (if update)</b>	New	
E01	Compile & feedback upon the total number of observations included in the delivery	Total number Observations within this XML Document	Yes	<b>Info, error if empty</b>	New	
E1	/om:OM_Observation gml:id attribute shall be unique code for the group of observations enclosed by /OM_Observation within the delivery. Please note that the om:OM_Observation do not have INSPIRE ID like all other elements with namespace & localId	GML identifier for om:OM_Observation attribute shall be unique code		<b>Error</b>	Implemented as QA in v5.0	
E2	./om:phenomenonTime/gml:TimePeriod/gml:beginPosition shall be LESS THAN ./om:phenomenonTime/gml:TimePeriod/gml:endPosition.	Start time must be less than end time (phenomenonTime)		<b>Error</b>	Implemented as QA in v5.0	
E3	./om:resultTime/gml:TimeInstant/gml:timePosition shall be GREATER THAN ./om:phenomenonTime/gml:TimePeriod/gml:endPosition	The resultTime must be after the phenomenonTime		<b>Error</b>	Implemented as QA in v5.0	
E4	All om:OM_Observation/ must provide a valid /om:procedure xlink (can not be empty) & ./om:procedure xlink:href attribute shall resolve to a traversable link process configuration in Data flow D: /aqd:AQD_SamplingPointProcess/ompr:inspireId/base:Identifier/base:localId	Observation must link to a valid AQD_SamplingPointProcess in dataflow D (via om:procedure)		<b>Error</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-7)
E5	A valid delivery MUST provide an om:parameter with om:name xlink:href to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/SamplingPoint">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/SamplingPoint</a>	Observation must provide a link to SamplingPoint	Yes	<b>Error</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-)
E6	If ./om:parameter/om:NamedValue/om:name xlink:href resolves to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/SamplingPoint">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/SamplingPoint</a> /om:parameter/om:NamedValue/om:value xlink:href attribute shall resolve to a traversable link to a unique AQD_SamplingPoint ("namespace/localId" of the object)	Observation must link to a valid AQD_SamplingPoint in dataflow D (via om:parameter/...)	Yes	<b>Error</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-7)
E7	A valid delivery should provide an om:parameter with om:name xlink:href to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/AssessmentType">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/AssessmentType</a>	Observation should provide link to Assessment Type	Yes	<b>Warning</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-6)
E8	If ./om:parameter/om:NamedValue/om:name links to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/AssessmentType">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/AssessmentType</a> /om:parameter/om:NamedValue/om:value xlink:href attribute shall resolve to valid code for <a href="http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/">http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/</a>	Observation must provide a correct link to AssessmentType vocabulary		<b>Warning</b>	Implemented as QA in v5.0	
E9	OM observations shall contain several om:parameters to further define the observations. ./om:parameter/om:NamedValue/om:name xlink:href attribute shall resolve to a traversable link to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/</a>	All observation paramater should link to be registered under vocabulary		<b>Warning</b>	Implemented as QA in v5.0	
E10	./om:parameter/om:NamedValue/om:name xlink:href attribute shall resolve to a traversable link to <a href="http://dd.eionet.europa.eu/vocabulary/aq/processparameter/">http://dd.eionet.europa.eu/vocabulary/aq/processparameter/</a>	Pollutant must be a registered under vocabulary	Yes	<b>Error</b>	Implemented as QA in v5.0	
E11	The pollutant xlinked via /om:observedProperty must match the pollutant code declared via /aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:observedProperty (See E6 on linkages between the Observations & the SamplingPoint)	The pollutant for the observation must match the pollutant of the SamplingPoint	Yes	<b>Error</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-7)
E12	All om:OM_Observation/ must provide a valid /om:featureOfInterest xlink (can not be empty)& /om:featureOfInterest xlink:href attribute shall resolve to a traversable link to /aqd:AQD_Sample/ompr:inspireId/base:Identifier/base:localId	Observation must link to a valid AQD_Sample in dataflow D (via om:featureOfInterest)		<b>Error</b>	Implemented as QA in v5.0	IPR requirement (Annex II-E-7)

E13	The temporal envelopes of <code>./om:phenomenonTime/gml:TimePeriod/gml:beginPosition</code> shall reconcile with <code>/aqd:AQD_SamplingPoint/ef:operationalActivityPeriod/ef:OperationalActivityPeriod</code> associated with the citations via <code>/om:parameter/om:value xlink:href</code> attribute AND <code>/aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:observingTime/gml:TimePeriod/</code> associated with <code>/aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:procedure</code> the citations via <code>/om:procedure xlink:href</code> attribute		Yes	Not implemented		
E14	<code>./om:result/swe:DataArray/swe:elementCount/swe:Count/swe:value</code> shall resolve to the count of observations in <code>/om:result/swe:DataArray/swe:values</code>			Not implemented		
E15	IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="startTime"</code> attribute THEN <code>swe:Time</code> definition= <a href="http://www.opengis.net/def/property/OGC/0/SamplingTime_swe:uom">http://www.opengis.net/def/property/OGC/0/SamplingTime_swe:uom</a> <code>xlink:href=http://www.opengis.net/def/uom/ISO-8601/0/Gregorian</code>	Check valid definition for startTime	Yes	Error	Implemented as QA in v5.0	IPR requirement (Annex II-E-8)
E16	IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="endTime"</code> attribute THEN <code>swe:Time</code> definition= <a href="http://www.opengis.net/def/property/OGC/0/SamplingTime_swe:uom">http://www.opengis.net/def/property/OGC/0/SamplingTime_swe:uom</a> <code>xlink:href=http://www.opengis.net/def/uom/ISO-8601/0/Gregorian</code>	Check valid definition for endTime	Yes	Error	Implemented as QA in v5.0	IPR requirement (Annex II-E-8)
E17	IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="validity"</code> attribute THEN <code>swe:Category</code> definition is defined by <a href="http://dd.eionet.europa.eu/vocabulary/aq/observationvalidity">http://dd.eionet.europa.eu/vocabulary/aq/observationvalidity</a>	Check valid definition for observation validity	Yes	Error	Implemented as QA in v5.0	IPR requirement (Annex II-E-12)
E18	IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="verification"</code> attribute THEN <code>swe:Category</code> definition is defined by <a href="http://dd.eionet.europa.eu/vocabulary/aq/observationverification">http://dd.eionet.europa.eu/vocabulary/aq/observationverification</a>	Check valid definition for observation verification	Yes	Error	Implemented as QA in v5.0	IPR requirement (Annex II-E-13)
E19	IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="Value"</code> attribute THEN <code>swe:Quantity</code> definition is defined by <a href="http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/[code]">http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/[code]</a> & the <code>swe:uom</code> resolves to an xlink to <a href="http://dd.eionet.europa.eu/vocabulary/uom/concentration/[code]">http://dd.eionet.europa.eu/vocabulary/uom/concentration/[code]</a>	Check valid definition for the observation values (primaryObservation code_& concentration)	Yes	Error	Implemented as QA in v5.0	IPR requirement (Annex II-E-5)
E19b	Check if the unit of measure reporting via ( <code>swe:uom</code> ) corresponds to the recommended unit of measure in vocabulary <a href="http://dd.eionet.europa.eu/vocabulary/uom/concentration/[code]">http://dd.eionet.europa.eu/vocabulary/uom/concentration/[code]</a> depending on pollutant reported via <code>/om:observedProperty</code>	Check if data is provided using the recommended unit according to vocabulary		Warning	Implemented as QA in v5.0	
E20	A fifth element might be included. IF <code>./om:result/swe:DataArray/swe:elementType/swe:DataRecord/swe:field name="DataCapture"</code> attribute THEN <code>swe:Category</code> definition is defined by <a href="http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/dc_">http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/dc_</a> & the <code>swe:uom</code> resolves to an xlink to <a href="http://dd.eionet.europa.eu/vocabulary/uom/statistics/percentage">http://dd.eionet.europa.eu/vocabulary/uom/statistics/percentage</a>	Check valid definition for the data coverage element (if provided)	Yes	Error	Implemented as QA in v5.0	
E21	<code>/om:result/swe:DataArray/swe:encoding/swe:TextEncoding</code> shall resolve to <code>decimalSeparator="." tokenSeparator="," blockSeparator="@@"</code>	Check valid TextEncoding (decimalSeparator="." tokenSeparator="," blockSeparator="@@" )		Warning	Implemented as QA in v5.0	System requirement
E22	The order of the fields within individual data blocks ( <code>swe:values</code> ) must correspond to the order described within the <code>swe:DataRecord/swe:field(multiple)</code> .	The order of the fields within individual data blocks must correspond to the order described.	Yes	Error	New since v5.0.1c	System requirement (processing)
E23	The count of elements under <code>&lt;swe:elementCount&gt;&lt;swe:Count&gt;&lt;swe:value&gt;</code> should match the count of data blocks under <code>&lt;swe:values&gt;</code> .	The count of values provided for observation should match the count declared.	Yes	Error	New since v5.0.1c	System requirement (processing)

E24	Difference between endTime & startTime must correspond to the definition under <swe:field name="Value"><swe:Quantity definition=> .Difference between endTime & startTime must correspond to the definition: http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/hour must be 1 h http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/day must be 24 hours http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/year must be 8760 hours or 8784 http://dd.eionet.europa.eu/vocabulary/aq/primaryObservation/var can be anything	Difference between endTime & startTime must correspond to the definition under <swe:field name="Value"><swe:Quantity definition=>.	Yes	Error	New since v5.0.1c	System requirement (processing)
E25	The temporal envelopes of the swe:values (reported via starTime and EndTime) shall reconcile with ./om:phenomenonTime/gml:TimePeriod/gml:beginPosition	The temporal envelopes of the swe:values (reported via starTime and EndTime) shall reconcile with ./om:phenomenonTime/gml:TimePeriod/gml:beginPosition	Yes	Error	New since v5.0.1c	
E26	Check valid "constellation": The combination of SamplingPoint, SamplingPointProcess, Sample and Pollutant must be valid compared to latest Assessment Methods (D) reported  /om:parameter/om:NamedValue/om:value xlink:href attribute when /om:parameter/om:NamedValue/om:name xlink:href resolves to http://dd.eionet.europa.eu/vocabulary/aq/processparameter/SamplingPoint + /om:procedure xlink:href attribute + /om:featureOfInterest xlink:href attribute + om:observedProperty xlink:href attribute  must be found in latest metadata (D) as /aqd:AQD_SamplingPoint/ef:inspireId/base:localId (note xlink above include "namespace") + /aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:procedure + /aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:featureOfInterest + /aqd:AQD_SamplingPoint/ef:observingCapability/ef:ObservingCapability/ef:observedProperty	The combination of SamplingPoint, SamplingPointProcess, Sample and Pollutant must be valid compared to latest Assessment Methods (D) reported	Yes	Error	Implemented as QA in v5.0	System requirement
E27	Check that all values (between @@) include as many fields as declared under swe:DataRecord	Check that all values (between @@) include as many fields as declared under swe:DataRecord	Yes	Error	New since v5.0.1c	System requirement (processing)
E28	The data array should not end with "@@". Please note that @@ is a block separator.	The data array should not end with "@@". Please note that @@ is a block separator.	Yes	Error	New since v5.0.1c	System requirement (processing)
E29	Check for unexpected spaces around all values (between comma separator) under swe:values	Check for unexpected spaces around all values (between comma separator) under swe:values	Yes	Error	New since v5.0.1c	System requirement (processing)
E30	Check for possible outliers reported. List of valid values found outside the range according to http://dd.eionet.europa.eu/vocabulary/aq/primaryObservationRange/	Check for possible outliers reported. List of valid values found outside the range according to http://dd.eionet.europa.eu/vocabulary/aq/primaryObservationRange/	Yes	Warning	New since v5.0.1c	System requirement (processing)
E31	Check for date overlaps between consecutive data blocks within swe:values	Check for unexpected spaces around all values (between comma separator) under swe:values		Error	New since v5.0.1c	Information to data provider
E32	Check that all data submitted via CDR has been fully verified. The verification flag must be 1 for all data.	Check that all data submitted via CDR has been fully verified (flag 1)		Warning	New since v5.0.1c	Information to data provider

Checks	Original	User friendly text	Crucial check	QA blocker as implemented in CDR	Status/Note	Review in 2016
XML	XML validation to confirm that it is both well-formed and also "valid" in that it follows a defined structure. A well-formed document follows the basic syntactic rules of XML, which are the same for all XML documents. A valid document also respects the rules dictated by XML schema ( <a href="http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view">http://dd.eionet.europa.eu/schemaset/id2011850eu-1.0/view</a> )	XML validation	Yes	<b>Error</b>	Integrated into one qa check	System requirement
NS	Check prefix and namespaces of the gml:featureCollection according to expected root elements (More information at <a href="http://www.eionet.europa.eu/aqportal/datamodel">http://www.eionet.europa.eu/aqportal/datamodel</a> )	Prefix/namespaces check	Yes	<b>Error</b>	Integrated into one qa check	System requirement
G0	Check if delivery if this is a new delivery or updated delivery (via reporting year)	Checks if this delivery is new or an update (on same reporting year)		<b>Warning (if update)</b>	Improved in v5.0	
G1	Compile & feedback upon the total number of attainment records included in the	Number of Attainments reported	Yes	<b>Error</b>	Improved in v5.0	
G2	Compile & feedback upon the total number of <b>new</b> attainment records included in the delivery. <b>ERROR will be returned if XML is a new delivery and localId are not new compared to previous deliveries.</b>	Number of new Attainments compared to previous report. ERROR will be returned if XML is a new delivery and localId are not new compared to previous deliveries	Yes	<b>Error</b>	Improved in v5.0	
G3	Compile & feedback upon the total number of <b>updated</b> attainment records included in the delivery. <b>ERROR will be returned if XML is an update and ALL localId (100%) are different to previous delivery (for the same YEAR).</b>	Number of existing Attainment compared to previous report. ERROR will be returned if XML is an update and ALL localId (100%) are different to previous delivery (for the same YEAR).	Yes	<b>Error</b>	Improved in v5.0	
G4	Compile & feedback a list of the unique identifier information for all attainment records	List of unique identifier information for all attainment records. Error, if no attainments	Yes	<b>Error, if no attainments</b>	Improved in 4.0	
G5	Compile & feedback a list of the exceedances situations when aqd:exceedanceDes	List number of final exceedances (TRUE)	Yes	<b>Warning if no attainment TRUE</b>	Improved in v5.0	
G6	Compile & feedback a list of attainment records that have been assessed against t	Check and provide a list of those attainment records with a time extension	Yes	<b>Error</b>		
G7	All gml:id attributes, ef:inspireId and aqd:inspireId elements shall have unique content	All gml ID attributes shall have unique code	Yes	<b>Error</b>		
G8	./aqd:inspireId/base:Identifier/base:localId must be unique code for the attainme	Local Id must be unique for the attainment records	Yes	<b>Error</b>		
G9	./aqd:inspireId/base:Identifier/base:namespace List base:namespace and count t	List unique namespaces used and count number of elements	Yes	<b>Error</b>	Improved in 4.0	
G9.1	Check that namespace is registered in vocabulary ( <a href="http://dd.eionet.europa.eu/voc">http://dd.eionet.europa.eu/voc</a> )	Check namespace is registered	Yes	<b>Error</b>	NEW	System requirement
G10	The content of ./aqd:pollutant xlink:href attribute shall resolve to one of <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/7</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/8</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/9</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/20</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5012">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5012</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5014">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5014</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5015">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5015</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5018">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5018</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5029">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5029</a>	The Attainment Pollutant must be one of the following: SO2, O3, NO2, NOX, PM10, PM2.5, CO, Pb in PM10, Cd in PM10, Ni in PM10, As in PM10, BaP in PM10	Yes	<b>Error</b>		IPR requirement (Annex II-G-6)
G11	Element ./aqd:exceedanceDescriptionBase may only be used WHERE ./aqd:pollutant xlink:href attribute EQUALS <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10</a>	Exceedance Description Base is only expected for the following pollutants: SO2, PM10, PM2.5, CO	Yes	<b>Error</b>		IPR requirement (Annex II-G-6)
G12	Element ./aqd:exceedanceDescriptionAdjustment can only be used WHERE ./aqd:pollutant xlink:href attribute EQUALS <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/1</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/6001</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10">http://dd.eionet.europa.eu/vocabulary/aq/pollutant/10</a>	Exceedance Description Adjustment is only expected for the following pollutants: SO2, PM10, PM2.5, CO	Yes	<b>Error</b>		IPR requirement (Annex II-G-6)

G13	<p>/aqd:assessment xlink:href attribute shall resolve to a valid assessment regime within /aqd:AQD_AssessmentRegime AND /aqd:AQD_AssessmentRegime/aqd:pollutant, aqd:AQD_AssessmentRegime/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType EQUAL to aqd:AQD_Attainment/aqd:pollutant aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType</p>	Attainment should link to a valid assessment regime with matching Pollutant and Objective Type	Yes	<b>Error; UPDATE</b>		IPR requirement (Annex II-G-7)
G13b	<p>/aqd:assessment xlink:href attribute shall resolve to a valid assessment regime within /aqd:AQD_AssessmentRegime AND /aqd:AQD_AssessmentRegime/aqd:pollutant, aqd:AQD_AssessmentRegime/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget EQUAL to aqd:AQD_Attainment/aqd:pollutant aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget</p>	Attainment must link to a valid assessment regime with matching Pollutant and Protection Target	Yes	<b>Error</b>		
G13c	<p>aqd:AQD_Attainment/aqd:pollutant aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:reportingMetric aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget</p> <p>should correspond with aqd:AQD_AssessmentRegime/aqd:pollutant aqd:AQD_AssessmentRegime/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType aqd:AQD_AssessmentRegime/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:reportingMetric aqd:AQD_AssessmentRegime/aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget</p>	Attainment should link to a valid assessment regime with matching Pollutant/Objective Type/ReportingMetric/ProtectionTarget/	Yes	<b>Error</b>		
G14	<p>COUNT number zone-pollutant-target combination to match those in dataset B and dataset C for the same reporting Year &amp; compare it with Attainment.</p> <p>aqd:AQD_Attainment/aqd:pollutant xlink + aqd:AQD_Attainment/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget + aqd:AQD_Attainment/aqd:zone .aqd:assessmentThreshold/aqd:AssessmentThreshold/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:protectionTarget + ./aqd:pollutant + /aqd:zone combinations shall reconcile to corresponding information within /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:protectionTarget , /aqd:AQD_Zone/aqd:pollutants/aqd:Pollutant/aqd:pollutantCode + /aqd:AQD_Zone/am:inspireId/base:Identifier/base:localId</p>	COUNT number zone-pollutant-target combination to match those in dataset B and dataset C for the same reporting Year	Yes (crosscheck)	<b>Error</b>	Updated in this REVIEW	Important content check
G14b	For the same reporting year, all the /aqd:AQD_AssessmentRegime reported under dataflow C, must be xlinked once at /aqd:AQD_Attainment /aqd:assessment xlink:href attribute	All the /aqd:AQD_AssessmentRegime reported under latest dataflow C must be xlinked once at one Attainment (with exception of /MO)	Yes	<b>Warning</b>		



G15	The subject of ./aqd:zone xlink:href attribute shall resolve to a valid AQ zone with	Must be a valid AQ Zone.	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-4)
G16	The subject of the ./aqd:zone xlink:href attribute shall contain ./aqd:AQD_Zone/am:designationPeriod/gml:TimePeriod/gml:endPosition that is unclosed		Yes	Not implemented		
G17	The subject of the ./aqd: zone xlink:href attribute shall contain a ./aqd:AQD_Zone/aqd:pollutant EQUAL to ./aqd:pollutan	Linked zones must contain same pollutant as the Attainment	Yes	Error	Improved in 4.0	Content check vs Zones
G18	The subject of the ./aqd: zone xlink:href attribute shall contain a ./aqd:AQD_Zone/aqd:timeExtensionExemption shall NOT EQUAL <a href="http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/none">http://dd.eionet.europa.eu/vocabulary/aq/timeextensiontypes/none</a> WHERE ./aqd:exceedanceDescription_Final/aqd:ExceedanceDescription/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType xlink:href attribute EQUALs <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVmaxMOT">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVmaxMOT</a>	Any attainment for LVmaxMOT should link to a zone with a time extension	Yes	Error		Content check
G19	./aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:objectiveType xlink:href attribute shall resolve to one of <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LV">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LV</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/TV">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/TV</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVMOT">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVMOT</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVmaxMOT">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LVmaxMOT</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/CL">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/CL</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LTO">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LTO</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/ECO">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/ECO</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/INT">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/INT</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/ALT">http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/ALT</a>	Objective Type must use one of the following: TV LV CL LVMOT LVmaxMOT INT ALT LTO ECO	Yes	Error	Updated in 4.0	Content check
G20	The content of ./aqd:EnvironmentalObjective/aqd:reportingMetric shall resolve to a valid concept in <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/</a> that must be one of <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/3hAbove">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/3hAbove</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/aMean">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/aMean</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/wMean">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/wMean</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/hrsAbove">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/hrsAbove</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/daysAbove">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/daysAbove</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/daysAbove-3yr">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/daysAbove-3yr</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/maxd8hrMean">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/maxd8hrMean</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AOT40c">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AOT40c</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AOT40c-5yr">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AOT40c-5yr</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AEI">http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/AEI</a>	The Exceedance description must use an approved reporting metric, These are: Three consecutive hours in exceedance Annual mean / average Winter Mean Hours in exceedance in a calendar year Days in exceedance in a calendar year Days in exceedance averaged over 3 calendar years Accumulated Ozone Exposure Accumulated Ozone Exposure averaged over 5 years Average Exposure Indicator	Yes	Error		Content check
G21	If ./aqd:protectionTarget shall resolve to a register vocabulary under <a href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/">http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/</a>	The protection target must use the approved vocabulary	Yes	Error		Content check
G22	<a href="http://dd.eionet.europa.eu/vocabulary/aq/environmentalobjective/view">Check that EnvironmentalObjective (ObjectiveType+ReportingMetric+ProtectionTarget) correspond to a valid combination in http://dd.eionet.europa.eu/vocabulary/aq/environmentalobjective/view</a>	Check and list any invalid combination of pollutant & environmental objective	Yes	Error	Improved in v5.0	Content check
G23					inc G22	Content check
G24					inc G22	Content check
G25					inc G22	Content check
G26					inc G22	Content check
G27					inc G22	Content check
G28					inc G22	Content check
G29					inc G22	Content check
G30					inc G22	Content check
G31					inc G22	Content check
G32					inc G22	Content check
G33					inc G22	Content check
G34	All occurrences of the srsDimension attribute in ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall EQUAL "2"			Not implemented		

G35	All occurrences of the srsName attribute in ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall resolve to a valid spatial reference system URN or URI			Not implemented		
G36	/aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:surfaceArea uom attribute shall resolve to http://dd.eionet.europa.eu/vocabulary/uom/a			Not implemented		
G37	/aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:roadLength uom attribute shall be http://dd.eionet.europa.eu/vocabulary/uom/length/km			Not implemented		
G38	The content of ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:areaClassification xlink:href shall resolve to a areaClassification in http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/ that must be one of of Hide items http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-nearcity http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-regional http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-remote http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/urban http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/suburban	Classification type must be one of the following: rural rural-nearcity rural-regional rural-remote urban suburban	Yes	Error		Content check
G39	./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:exceedanceModel shall resolve to a traversable local of global URL.	The exceeding AQ_Model shall resolve to a traversable local of global URL.	Yes	Error		Content check
G40	The subject of ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:exceedanceModel shall be included in the corresponding AssessmentRegime	The exceeding AQ_Model must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G41	./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:exceedanceSamplingPoint shall resolve to a traversable local of global URL.	The exceeding SamplingPoint shall resolve to a traversable local of global URL.	Yes	Error		Content check
G42	The subject of ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:exceedanceSamplingPoint shall be included in the corresponding AssessmentRegime	The exceeding SamplingPoint must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G43	./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceExposure/aqd:ExceedanceExposure/aqd:referenceYear/gml:TimeInstant/gml:timePosition shall specify a year in yyyy format			Not implemented		
G44	./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceStart/aqd:ExceedanceStart/aqd:baselineExceedance shall be TRUE or FALSE (if provided)	Baseline exceedance must be TRUE or FALSE (if provided)	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-8+9)
G45	If ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceStart/aqd:ExceedanceStart/aqd:baselineExceedance is TRUE EITHER ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:numericalExceedance OR ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:numberExceedances must be provided AS an integer number	If baseline exceedance is TRUE numericalExceedance or numberExceedances must be provided	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-8+9)
G46	If ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:exceedanceStart/aqd:ExceedanceStart/aqd:baselineExceedance is FALSE EITHER ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:numericalExceedance OR ./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:numberExceedances must be provided AS an integer number	If baseline exceedance is FALSE the provision of numericalExceedance or numberExceedances is useful	Yes	Error	Implement	IPR requirement (Annex II-G-8+9)
G47	./aqd:exceedanceDescriptionBase/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:adjustmentType xlink:href attribute shall resolve to http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/noneApplied	Deduction is not allowed when providing Baseline Exceedance	Yes	Error		Content check
G48	All occurrences of the srsDimension attribute in ./aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall EQUAL "2"			Not implemented		

G49	All occurrences of the srsName attribute in /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall resolve to a valid spatial reference system URN or URI			Not implemented		
G50	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:surfaceArea uom attribute shall resolve to http://dd.eionet.europa.eu/vocabulary/uom/area/km2			Not implemented		
G51	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:roadLength uom attribute shall be http://dd.eionet.europa.eu/vocabulary/uom/length/km			Not implemented		
G52	The content of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:environmentalObjective/aqd:EnvironmentalObjective/aqd:areaClassification xlink:href shall resolve to a areaClassification in http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/ that must be one of Hide items http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-nearcity http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-regional http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-remote http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/urban http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/suburban	If provided unde Adjustment Exceedance, area classification must be one of the following: rural rural-nearcity rural-regional rural-remote urban suburban	Yes	Error		
G53	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:modelUsed xlink:href attribute shall resolve to a model description in aqd:AQD_Model	The exceeding AQ_Model shall resolve to a traversable local of global URL.	Yes	Error		Content check
G54	The subject of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription shall resolve to a model description in aqd:AQD_Model	The exceeding AQ_Model must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G55	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:stationUsed xlink:href attribute shall resolve to a sampling point description in /aqd:AQD_SamplingPoint	The exceeding SamplingPoint shall resolve to a traversable local of global URL.	Yes	Error		Content check
G56	The subject of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription shall resolve to a sampling point description in /aqd:AQD_SamplingPoint	The exceeding SamplingPoint must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G57	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:exceedanceExposure/aqd:ExceedanceExposure/aqd:referenceYear/gml:TimeInstant/gml:timePosition shall specify a year in year			Not implemented		
G58	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:adjustmentExceedance shall be TRUE or FALSE	Adjustment exceedance must be TRUE or FALSE	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-10+11)
G59	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:numericalExceedance shall be provided	If adjustment exceedance is TRUE numericalExceedance or numberExceedances must be provided	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-10+11)
G60	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:numericalExceedance shall be provided	If adjustment exceedance is FALSE the provision of numericalExceedance or numberExceedances is useful	Yes	Warning	Improved in v5.0	IPR requirement (Annex II-G-10+11)
G61	The content of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:adjustmentType xlink:href shall resolve to a adjustmentType in http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/ that must be one of Hide items http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/nsCorrection http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/wssCorrection	The Adjustment Method type shall be 'Natural source correction' or 'Winter-sanding or -salting correction'	Yes	Error		Content check

G62	The content of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:adjustmentSource xlink:href shall resolve to an adjustmentSource in http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/ that must be one of Hide items http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/A1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/A2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/B http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/B1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/B2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/C1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/C2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/D1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/D2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/E1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/E2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/F1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/F2 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/G1 http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype/G2	The Adjustment Source Type must be one of the registered vocabulary.	Yes	Error		Content check
G63	The content of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:assessmentMethod/aqd:AssessmentMethods/aqd:assessmentType shall resolve to http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/ that must be one of Hide items http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/fixed http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/model http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/indicative http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/objective	Assessment Type must be one of the following: fixed, model, indicative or objective estimation	Yes	Error		Content check
G64	When adjusting for NS/WSS correction, aqd:exceedanceDescriptionAdjustment must contain, at least, a link to the adjustment method used (via /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:assessmentMethod/aqd:AssessmentMethods/[aqd:modelAssessmentMetadata or samplingPointAssessmentMetadata] xlink:href	If adjusting for NS/WSS correction, a correct link must be provided to the adjustment method (either Model or SamplingPoint)	Yes	Error		Content check
G65	The subject of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescriptionAdjustment shall resolve to a valid URI	If model(s) or samplingPoint(s) are used for adjusting for NS/WSS correction, a correct link must be provided	Yes	Removed		Content check
G66	The subject of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescriptionAdjustment shall resolve to a valid URI	If the adjustment method(s) are Model(s), these must be found with the corresponding Assessment Regime (link to the Attainment)	Yes	Error		Content check
G67	The subject of /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescriptionAdjustment shall resolve to a valid URI	If the adjustment method(s) are SamplingPoint(s), these must be found with the corresponding Assessment Regime (link to the Attainment)	Yes	Error		Content check
G68	All occurrences of the srsDimension attribute in /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall EQUAL "2"			Not implemented		
G69	All occurrences of the srsName attribute in /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatialExtent shall resolve to a valid spatial reference system URN or URI			Not implemented		
G70	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:surfaceArea uom attribute shall resolve to http://dd.eionet.europa.eu/vocabulary/uom/area/km2	Exceedance area uom attribute must be in Square kilometers.	Yes	Error	Updated in 4.0	System check

G71	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:roadLength uom attribute shall be <a href="http://dd.eionet.europa.eu/vocabulary/uom/length/km">http://dd.eionet.europa.eu/vocabulary/uom/length/km</a>	Road Length attribute must be in kilometers.	Yes	Error	Updated in 4.0	System check
G72	The content of /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:areaClassification xlink:href shall resolve to a areaClassification in <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/</a> that must be one of Hide items <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-nearcity">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-nearcity</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-regional">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-regional</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-remote">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/rural-remote</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/urban">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/urban</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/suburban">http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/suburban</a>	Area Classification must be one of the following: rural rural-nearcity rural-regional rural-remote urban suburban	Yes	Error		Content check
G73	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:modelUsed xlink:href attribute shall resolve to a model description in /aqd:AQD_Model	The exceeding AQ_Model shall resolve to a traversable local of global URL.	Yes	Error		Content check
G74	The subject of /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:	The exceeding AQ_Model must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G75	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:stationUsed xlink:href attribute shall resolve to a sampling point description in /aqd:AQD_SamplingPoint	The exceeding SamplingPoint shall resolve to a traversable local of global URL.	Yes	Error		Content check
G76	The subject of /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:stationUsed xlink:href attribute shall be found in /aqd:AQD_AssessmentRegime/aqd:assessmentMethods/aqd:AssessmentMethods/aqd:samplingPointAssessmentMetadata xlink:href attribute for the AQD_AssessmentRegime record cited by /aqd:assessment	The exceeding SamplingPoint must be included in the corresponding AssessmentRegime	Yes	Error		Content check
G77	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceExposure/aqd:ExceedanceExposure/aqd:referenceYear/gml:TimeInstant/gml:timePosition shall specify a year in yyyy format.			Not implemented		
G78	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceStatus	Final Exceedance must be TRUE or FALSE	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-13)
G79	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:numericalExceedance	If Final exceedance is TRUE numericalExceedance or numberExceedances must be provided	Yes	Error	Improved in v5.0	IPR requirement (Annex II-G-13)
G80	/aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:numberExceedances	If Final exceedance is FALSE the provision of numericalExceedance or numberExceedances is useful	Yes	Warning	Improved in v5.0	IPR requirement (Annex II-G-13)
G81	/aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:adjustmentType xlink:href attribute shall resolve to <a href="http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/fullyCorrected">http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/fullyCorrected</a>	Exceedance Description Adjustment Method must be 'Fully corrected.'	Yes	Error		Content check
G82	WHERE /aqd:exceedanceDescriptionAdjustment class DOES NOT exists in the AQD_Attainment record /aqd:exceedanceDescriptionAdjustment/aqd:ExceedanceDescription/aqd:deductionAssessmentMethod/aqd:AdjustmentMethod/aqd:adjustmentType xlink:href attribute shall resolve to <a href="http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/noneApplied">http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/noneApplied</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/noneApplicable">http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/noneApplicable</a> <a href="http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/fullyCorrected">http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype/fullyCorrected</a>		Yes	Not implemented		

G83	<p>WHERE  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedance shall EQUAL "true"  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:spatalExtent OR  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:administrativeUnit shall be populated</p>			Not implemented		
G84	<p>WHERE  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedance shall EQUAL "true"  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:surfaceArea OR  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:roadLength shall be populated</p>	If exceedance is TRUE, information on surface are or road lenght shall be provided		Not implemented		
G85	<p>WHERE  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedance shall EQUAL "true"  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:stationUsed OR  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceArea/aqd:ExceedanceArea/aqd:modelUsed shall be populated</p>	If exceedance is TRUE, a link to the exceeding SamplingPoint(s) and/or Model(s) must be provided [at least one]		Error		
G86	<p>If, aqd:stationUsed and/or aqd:modelUsed are populated, these must be valid elements  stationUsed must link To SamplingPoint via namespace/localid  modelUsed must link to AQD_Model via namespace/ localid</p>	If SamplingPoint(s) and/or Model(s) are provided, these must be valid		Error		
G87	<p>WHERE  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedance shall EQUAL "true"  /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceExposure/aqd:ExceedanceExposure/aqd:populationExposed shall be populated</p>	If exceedance is TRUE, information on population exposed must be provided		Not implemented		
G88	<p>WHERE  ./aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedance shall EQUAL "true"  /aqd:exceedanceDescriptionFinal/aqd:ExceedanceDescription/aqd:exceedanceExposure/aqd:ExceedanceExposure/aqd:ecosystemAreaExposed shall be populated</p>	If exceedance is TRUE, information on area exposed must be provided		Not implemented		