

1 true and fair account of emissions—free of material misstatements and in compliance with the
2 NMED’s reporting procedures and methods for calculating and reporting GHG emissions.

3 Third-party verification is a widely accepted practice for ensuring accurate emissions
4 data. It has been employed in the context of a number of voluntary and mandatory GHG
5 reporting programs. Third-party verification is required by the California Climate Action
6 Registry (CCAR) and The Climate Registry and is recommended by the Department of Energy’s
7 1605(b) reporting program. It is relied upon by several GHG regulatory programs, including the
8 California Air Resources Board (CARB), the Western Climate Initiative (WCI), the
9 Massachusetts Department of Environmental Protection (MassDEP), the European Union’s
10 Emissions Trading System (EU ETS), the United Kingdom’s GHG Emissions Trading System,
11 Alberta’s Specified Gas Emitters Program, and British Columbia’s Greenhouse Gas Reduction
12 Act.

13 The nature of GHG emissions quantification is different than that of the Acid Rain
14 Program and other criteria air pollutants. There is greater potential for error and inconsistency
15 and thus greater need for a robust verification process. Experience with both voluntary and
16 mandatory GHG reporting programs shows that errors are common in the development of GHG
17 inventories and that third-party verification can cost-effectively ensure accurate and consistent
18 data that is compliant with established reporting requirements and methodologies.

19

20 **III. VERIFICATION PROCESS**

21 The verification process consists of:

- 22 1. Assessment of the risk of material misstatement;
- 23 2. Development of a verification and sampling plan;

- 1 3. Request for supporting information and documents;
- 2 4. Evaluation of emissions data against verification requirements; and
- 3 5. Assessment of materiality of errors, omissions & misstatements identified.

4

5 **A. ASSESSMENT OF RISK OF MATERIAL MISSTATEMENT**

6 Before a verification body can conduct a risk assessment, they first must obtain certain
7 information from the reporter, such as information on the types of emissions sources and
8 monitoring equipment, the GHG data management system, the qualifications of personnel
9 involved in verification plan.

10 The verification body uses the background information to conduct a risk assessment
11 which identifies the largest emissions sources as well as the data systems, processes, emissions
12 sources, and calculations that pose the greatest risk of generating a material misstatement. A
13 material misstatement occurs when either:

- 14 • the individual or aggregate effect of one or more errors, omissions or misstatements
15 would change or influence the judgment of a reasonable person who is evaluating the
16 total reported emissions; or,
- 17 • the total reported emissions are less than 95 percent accurate.

18 Verification bodies identify a lower level of risk associated with high-quality, robust
19 GHG data management systems, than they do with lower-quality, poorly-organized, and/or
20 ineffective data management systems. Likewise, verification bodies identify a lower level of risk
21 when a reporter can demonstrate robust quality assurance mechanisms, such as data checks and
22 internal audits.

23

1 **B. DEVELOPMENT OF VERIFICATION AND SAMPLING PLANS**

2 The verification body then uses the findings of its risk assessment to design a verification
3 plan and a sampling plan that will allow it to state with a reasonable level of assurance whether
4 or not the emissions report is free from material misstatement and otherwise conforms to the
5 reporting requirements. A reasonable level of assurance is the highest level of assurance that a
6 verification body can provide; absolute assurance is not attainable because of the risk-based
7 sampling approach to verification, as well as other factors such as the use of professional
8 judgment.

9 The verification plan must document specific aspects such as the scope of the
10 verification, the level of assurance to be provided, the objectives of the verification, the resources
11 required to conduct the verification, and the schedule of activities, including the proposed date of
12 the facility visit, and the sampling plan. In years for which full verification is required, the
13 verification body must visit the reporting facility, as well as the location of central data
14 management, if different than the reporting facility.

15 The sampling plan identifies the nature and extent of information, documents, and
16 records to be reviewed based upon the risk assessment findings, and considers the type of data
17 checks to be conducted.

18
19 **C. REQUEST FOR SUPPORTING INFORMATION AND DOCUMENTS**

20 The verification body then follows their verification plan and typically collects a
21 combination of the following types of information:

- 1 1. Physical evidence, which is collected through a facility visit to directly observe emitting
2 activities, equipment such as fuel or utility meters, emission monitors, and calibration
3 equipment, as well as implementation of data collection and management processes.
- 4 2. Documentary evidence, which is acquired through requests for information that are
5 written or electronically recorded and typically include operating and control procedures,
6 log books, inspection sheets, invoices, and analytical results.
- 7 3. Testimonial evidence, which is gathered from interviews with personnel responsible for
8 monitoring, calculating, managing, and reporting GHG emissions data.

9
10 **D. EVALUATION OF EMISSIONS DATA AGAINST VERIFICATION**
11 **REQUIREMENTS**
12

13 The verification body must conduct data checks, which may include input/output tests,
14 checks on the transfer of information between different systems, consistency checks, limits, and
15 reasonableness tests.

16 The verification team is required to keep a log of any issues identified in the course of
17 verification activities that may affect determinations of material misstatement and
18 nonconformance, and how those issues were resolved.

19
20 **E. ASSESSMENT OF MATERIALITY OF ERRORS, OMISSIONS, AND**
21 **MISSTATEMENTS IDENTIFIED**

22 When assessing compliance with the 95 percent accuracy criteria, a verification body
23 evaluates the methods and factors used to develop the emissions data report for adherence to the
24 requirements of 20.2.300 NMAC.

1 In its materiality assessment, the verification body includes reporting errors such as
2 application of incorrect methodology, use of incorrect emission factors, and incorrect inputs into
3 methodologies, but does not consider inherent uncertainty associated with properly maintained
4 and calibrated monitoring equipment.

5
6 **IV. ACCREDITATION**

7 ISO 14065 is the international standard against which accreditation bodies such as the
8 American National Standards Institute (ANSI) assess verification bodies to ensure that they have
9 the skills and competencies to perform verification activities. As part of the accreditation
10 process, the accreditation body assesses a verification body's internal systems, processes, quality
11 controls, impartiality and independence to successfully complete emissions verifications.

12 During the accreditation process, the accreditation body assessors conduct a remote,
13 desktop review of the verification body's documentation, as well as an onsite visit to the
14 verification body's offices. The assessors also observe the verification body conducting a facility
15 visit as part of its verification activities. In order to maintain accredited status, verification bodies
16 must undergo annual surveillance and periodic reaccreditation.

17 Verification bodies accredited to ISO 14065 must adhere to the verification principles,
18 defined in ISO 14064-3, of independence, ethical conduct, fair presentation, and due professional
19 care. Since ANSI did not have an ISO 14065 accreditation program in place at the time CARB
20 was publishing its mandatory GHG reporting rule, CARB developed its own process for
21 accrediting verification bodies to provide services for its program.

22 ANSI's fee structure for its GHG accreditation program is publicly available through
23 ANSI's website. NMED-Zorovich Exhibit 2. Currently, the following five GHG programs are

1 partnered with ANSI to accredit verification bodies seeking to provide services for their
2 programs: The Climate Registry, the Voluntary Carbon Registry, the Climate Action Reserve, ,
3 the Chicago Climate Exchange, and the American Carbon Registry. Other GHG programs not
4 directly partnered with ANSI also rely on verification bodies that are accredited to ISO 14065
5 (for example, the Massachusetts Department of Environmental Protection, the Pacific Carbon
6 Trust, and the Regional Greenhouse Gas Initiative).

7 If additional GHG programs rely on the same ISO 14065 accreditation, this accreditation
8 becomes even more cost-effective for verification bodies because they can recover the cost of
9 accreditation through multiple schemes. Where individual GHG programs develop program-
10 specific criteria for qualifying verification bodies, it requires additional resources, which
11 translates into additional costs, for each verification body to track and comply with multiple
12 program requirements, including training and/or testing requirements. GHG programs that rely
13 on ISO 14065 accreditation also need fewer resources to ensure the competency of and oversee
14 the activities of the verification bodies that service their program.

15

16 **V. AVAILABILITY OF ACCREDITED VERIFICATION BODIES**

17 The NMED recognizes verification bodies that have demonstrated knowledge of the
18 reporting requirements in 20.2.300 NMAC and that are either accredited to ISO 14065, or up
19 until January 1, 2013, accredited by CARB. As of August 12, 2010, there are 15 verification
20 bodies that have been accredited by ANSI to ISO 14065 for organizational-level verifications, as
21 well as another 11 firms in the process. A current list is available through ANSI's GHG
22 accreditation directory. NMED-Zorovich Exhibit 3. As of August 12, 2010, 44 accredited
23 verification bodies are listed on CARB's website. NMED-Zorovich Exhibit 4.

1 **VI. ASSESSMENT OF CONFLICT OF INTEREST**

2 A conflict of interest (COI) is a situation in which financial or other relationships
3 between the reporter and verification body render the verification body unable or potentially
4 unable to conduct an impartial assessment.

5 To protect the credibility and rigor of NMED's GHG reporting program, the relationship
6 between a reporter and its verification body must not create or appear to create a high potential
7 for COI. In accordance with 20.2.301.106 NMAC, verification bodies are required to submit a
8 self-evaluation of the potential for COI with each reporter and to receive written authorization to
9 proceed from NMED before starting verification activities.

10 20.2.301.107 NMAC includes a list of activities that constitute a high potential for COI
11 that cannot be mitigated, which means that the verification body would not be permitted to
12 provide verification services to the reporter. This list of activities is consistent with the list of
13 GHG consultancy services and additional high COI non-verification services included in The
14 Climate Registry's General Verification Protocol Section 3.2.1. NMED-Zorovich Exhibit 5.
15 20.2.301.107 NMAC also describes the conditions under which the potential for COI would be
16 deemed low and the verification body would be permitted to proceed with verification activities.
17 In some instances, where the potential for COI is neither high nor low, verification bodies must
18 take steps to mitigate the potential for COI to a low level before NMED will allow verification
19 activities to proceed.

1 **VII. VERIFICATION COST**

2 The cost of GHG verification is dependent on a variety of factors, including but not
3 limited to:

- 4 • the risk of material misstatement;
- 5 • the complexity of the facility's operations, emitting activities, and data monitoring
6 systems;
- 7 • the quality, integrity, and level of organization of the data management system;
- 8 • the extent and rigor of the internal quality assurance program; and
- 9 • whether the data has been previously verified for purposes of reporting to another GHG
10 program.

11 There are many steps reporters can take to mitigate the cost of verification, as described
12 in NMED-Zorovich Exhibit 6 (*The Climate Registry's Guide to Understanding Factors that*
13 *Affect Verification Costs*). In particular, NMED's rule incorporates a three-year verification
14 cycle. Reporters are required to undergo full verification in the first year and then may be
15 eligible for two years of less intensive verification services. Based on the data collected by both
16 CCAR and The Climate Registry, which also use a three-year verification cycle, the cost of
17 verification is generally significantly reduced for less intensive verification services because a
18 facility visit may not be required. *See also* NMED-Zorovich Exhibit 7 (*The Climate Registry's*
19 *public comments on the EPA Mandatory Reporting Rule regarding verification costs*).