



**Independent Limited Assurance Report on the CO<sub>2</sub> emissions, safety, environmental incidents and other emissions Key Performance Indicators reported by CEMEX from January 1<sup>st</sup> through December 31<sup>st</sup> 2014**

**To the Board of Directors of CEMEX S.A.B de C.V.  
Constitución 444, Col. Centro, Monterrey N.L.,  
México  
P.C. 64000**

Upon request of CEMEX, we have carried out an independent limited review of CO<sub>2</sub> emissions, safety, environmental incidents and other emissions Key Performance Indicators (“the KPI’s”) reported by Global CEMEX Operations in the 2014 Sustainable Development Report:

- Our services have been delivered in accordance with the Mexican regulation (approved by the Instituto Mexicano de Normalización y Certificación, IMNC) : NMX-SAA-14064-3-IMNC-2007/ISO 14064-3: 2006 Guidelines and orientation for the validation and verification of Green House Gases Statements regarding the principles and requirements for GHG Inventory verification. We planned and performed specific procedures aimed to obtain a limited assurance level that the GHG emission statement of CEMEX’s work centers does not contain material misstatements, and has been developed according to the following guidelines for Cement Operations.
- For Cement Operation, CO<sub>2</sub> emissions calculated according to WBCSD-CSI “*The Cement CO<sub>2</sub> and Energy Protocol*” (version 3.1, December 2013) Scope1 and Scope 2:
  - Absolute gross and net CO<sub>2</sub> emissions.
  - Specific gross and net CO<sub>2</sub> emissions.
  - Alternative fuels indicators (alternative fossil and biomass fuels).
  - Total indirect CO<sub>2</sub> emissions.
- Safety indicators for cement, ready mix and aggregates, estimated according to the guidelines of WBCSD-CSI “*Safety in the cement industry: Guidelines for measuring and reporting*” (version 4.0, updated May 2013):
  - Fatality rate for directly employed and contractors.
- Lost Time Injury Frequency rate (LTI FR) for directly employed and contractors.
- Lost Time Injury Severity rate (LTI SR) for directly employed and contractors.
- Number of Environmental Incidents category 1 and 2, as defined by CEMEX Corporate in its operational and administrative procedure “*Environmental Incident Reporting*”.
- Other emissions indicators (dust, NO<sub>x</sub> and SO<sub>x</sub>) estimated according to the WBCSD-CSI “*Guidelines for Emissions Monitoring and Reporting in the Cement Industry*” (version 2, March 2012):
  - Overall coverage rate
  - Rate of clinker generated with continuous monitoring of dust, NO<sub>x</sub> and SO<sub>x</sub>
  - Absolute and specific emissions data of dust
  - Absolute and specific emissions data of NO<sub>x</sub>
  - Absolute and specific emissions data of SO<sub>x</sub>

The KPIs have been prepared by and are the responsibility of CEMEX Management. Our responsibility consists of issuing conclusions about their consistency and reliability based on our review work and scope described in the next paragraph.

**Basis, objective and scope of the verification**

Our work was performed based on verification standards established by the International Federation of Accountants, under the International Standard for Assurance Engagement ISAE 3000 pertaining to limited assurance. We planned and performed the procedures set out below to obtain limited assurance as to whether the KPIs are free of material misstatements. A higher level of assurance would have required more extensive procedures.

- We assessed CEMEX reporting procedures for The KPIs with regard to their consistency with “*The*



*Cement CO<sub>2</sub> and Energy Protocol*”, the “*Safety in the cement industry: Guidelines for measuring and reporting*”, the CEMEX corporate procedure on “*Environmental Incident Reporting*” and the “*Guidelines for Emissions Monitoring and Reporting in the Cement Industry*”, respectively; and in accordance with the Mexican regulation: NMX-SAA-14064-3-IMNC-2007/ISO 14064-3:2006, Guidelines and orientation for the validation and verification of Green House Gases Statements, scope 1 and scope 2.

- At corporate level, we conducted interviews with the individuals responsible for the preparation and execution of the reporting procedures as well as for the consolidation of data. At this level we performed analytical procedures and verified, on a sample basis, the calculations and consolidation of data;
- At regional coordination level, we conducted interviews with the individuals responsible for the KPIs reporting and performed analytical tests;
- We selected a sample of locations (9 cement plants worldwide that represents 34.8% of the clinker production) in order to perform site visits and executed the following :
  - We reviewed site organization and procedures, in particular those regarding KPIs reporting;
  - We assessed control procedures on key parameters, and
  - We performed reconciliation of reported data with the supporting documentation and verified on a sample basis the arithmetical accuracy of calculations.
- We analyzed the consolidated KPIs reported by CEMEX in the 2014 Sustainable Development Report to verify consistency with the results of our work.

## Conclusions:

Based on the results of our review, nothing has come to our attention that causes us to believe that:

- The KPIs have not, in all material respects, been prepared in accordance with “*The Cement CO<sub>2</sub> and Energy Protocol*”, the “*Safety in the cement industry: Guidelines for measuring and reporting*”, the “*Environmental Incident Reporting*” procedure and the “*Guidelines for Emissions Monitoring and Reporting in the Cement Industry*”.
- The CO<sub>2</sub> emissions, safety, environmental incidents type 1 and 2, and other emissions contain material misstatements.

PwC has issued a consolidated report “Verification Consolidated Report CEMEX 2014” with all the results of the visits for each plant visited in the scope of this verification.

Mexico, April 30<sup>th</sup>, 2015

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