

Chapter 4

Role of the Republic of Cameroon and Its Administrative Supervision and Technical Inspection Organization

4.0 INTRODUCTION

This Chapter is devoted to a discussion of the Republic of Cameroon's involvement and responsibilities regarding the Project, particularly with respect to environmental matters. More specifically, the Chapter will address:

- The areas of involvement and responsibility of the Republic of Cameroon in relation to the Cameroon Transportation System;
- The administrative supervision and technical inspection organization of the Republic of Cameroon during the construction and operations phases;
- The costs associated with the environmental portion of this organization; and
- Potential organizational strengthening requirements of this organization.

The Convention of Establishment (the Convention), the Law governing the Transportation by Pipeline of Hydrocarbons Originating from Other Countries (the Law), and its Implementing Decree (the Decree) were used as the basis for developing the information in this Chapter. These three documents shall take precedence if discrepancies exist between their texts and the following text.

4.1 THE REPUBLIC OF CAMEROON'S INVOLVEMENT WITH THE PROJECT

The Republic of Cameroon is involved with the Project because:

- Approximately 890 km of the Transportation System's pipeline, three onshore facilities and one offshore facility will be constructed within Cameroon's borders;
- The Law and its Implementing Decree define an administrative supervision and technical inspection organization for the construction, operation, and maintenance of the Cameroon Transportation System; and
- The Republic of Cameroon is an equity participant in the Cameroon Oil Transportation Company, S.A. (COTCO).

4.2 THE REPUBLIC OF CAMEROON'S AREAS OF RESPONSIBILITY REGARDING CAMEROON TRANSPORTATION SYSTEM ISSUES AND IMPACTS

The overall role of the Republic of Cameroon is to:

- Grant, in a timely manner, necessary authorizations and permits;
- Provide administrative supervision and technical inspection to the Cameroon Transportation System and its works;
- Making the land needed for the construction and operation of the Cameroon Transportation System available to the Project in compliance with applicable Republic of Cameroon legislation¹; and
- Enforce applicable legislation and the Convention of Establishment.

The administrative supervision and technical inspection-related activities regarding environmental matters to be pursued by the Republic of Cameroon are detailed in Chapter 5. These activities will be spread over the life of the Cameroon Transportation System and will be primarily focused on monitoring the application of and compliance with the administrative rules and technical standards related to the legal and regulatory obligations of COTCO as well as those related to safety and to the protection of the environment and populations. These activities will include but not be limited to the following:

- Developing an administrative supervision and technical inspection organization that, as a body or through its representatives, would:
 - Act as a single point of contact between the Republic of Cameroon and COTCO;
 - Monitor clearing, erosion control, construction, and reclamation activities during the construction phase to ensure that agreed upon environmental safeguards are in place and effective;
 - Monitor activities of COTCO and its Contractors to ensure regulatory compliance;
 - Monitor waste management practices;
 - Periodically inspect wastewater treatment equipment and waste management facilities;
 - Periodically monitor effluent discharges (e.g., treated sewage, hydrotest water);
 - Monitor COTCO and its Contractors' hiring practices;
 - Monitor the Cameroon Transportation System's impacts on local businesses;
 - Facilitate the resolution of socioeconomic conflicts and problems as they arise; and
 - Continue the existing monitoring of disease-producing conditions found in the vicinity of the Cameroon Transportation System facilities.
- Policing, including:

¹ People will receive legal compensation according to Cameroonian law and COTCO will pay supplemental compensation where applicable.

- Enforcing the legislation regarding the new Cameroon/Chad border crossing at the bridge to be built over the Mbéré River;
 - Enforcing road traffic regulations in the Cameroon Transportation System development areas; and
 - Maintaining public order in the immediate vicinity of the Cameroon Transportation System.
- Conservation and management of floral and faunal resources, including controlling wildlife poaching and illegal timber harvesting.

4.3 THE REPUBLIC OF CAMEROON'S ADMINISTRATIVE SUPERVISION AND TECHNICAL INSPECTION ORGANIZATION REGARDING ENVIRONMENTAL MATTERS: CONSTRUCTION PHASE

4.3.1 General Structure and Responsibilities

As per the Law and its Implementing Decree, the Republic of Cameroon will provide administrative supervision and technical inspection regarding environmental matters to the Cameroon Transportation System. The purpose of this oversight is to ensure compliance with regulations and standards that are intended to protect the biophysical and socioeconomic environments as well as the safety and health of the workers and populations. Specifically, the rules and standards are set forth in applicable legislation and the Convention of Establishment as well as in this Environmental Management Plan.

Administrative supervision and technical inspection will occur with respect to several areas, as discussed below.

Cameroon Transportation System Design/Construction and Operations

Administrative supervision and technical inspection activities in this area will include but not be limited to:

- Review of plans and facility/equipment designs;
- Review of facility operating procedures addressing environmental issues;
- Inspection of construction activities and sites;
- Inspection of operating facilities, particularly at start-up;
- Annual or more frequent inspection of conditions of safety valves, internal corrosion controls, and fire fighting controls and drills; and
- Witnessing of pressure testing of the pipeline and associated pressure vessels.

Environment

The administrative supervision and technical inspection organization will be responsible for ensuring that construction and operations works are performed in compliance with the Convention of Establishment and other applicable legislation and texts. The administrative supervision and technical inspection-related activities in this area will include but not be limited to:

- Review of environmental plans;
- Review of site selection information;
- Participation in pre-clearing assessments of sites;
- Monitoring of clearing, soil stripping, erosion control, construction, and reclamation activities;
- Review of COTCO's environmental monitoring reports and data;
- Environmental monitoring of operating facilities;
- Monitoring of waste management practices;
- Periodic inspection of wastewater treatment and waste management facilities;
- Periodic monitoring of treated effluents; and
- Monitoring and participation in spill response drills.

Land and Survey

Administrative supervision and technical inspection activities in this area will include but not be limited to:

- Coordination and facilitation of the operations, studies, and investigations related to the expropriation and grant of land;
- Monitoring the marking of the boundaries associated with the land easement;
- Monitoring adherence to land easement requirements; and
- Monitoring the temporary land occupation process outside the land easement.

Labor and Social Insurance

Administrative supervision and technical inspection activities in this area will consist of ensuring that all applicable labor and social insurance standards are met.

Health

Because of the Cameroonian and expatriate work force that will be in place during various phases of the Cameroon Transportation System, especially during the construction phase, and because of the potential for negative health effects on the local populations due to the works and personnel of the Cameroon Transportation System, the Republic of Cameroon's administrative supervision and technical inspection-related activities in this area consist of ensuring that all applicable health standards are met.

Transportation and Public Works

Because of the increase in vehicular and equipment-related traffic on the roads and because of the construction of some roads and the improvements to be made to other roads in the Cameroon Transportation System development area during the construction phase, the Republic of Cameroon's administrative supervision and technical inspection-related activities in this area will consist of ensuring that all transportation and traffic standards and regulations, as well as the road construction standards specified in Annex II to the Convention of Establishment, are met.

4.3.2 Coordinating Role of the Pipeline Steering and Monitoring Committee

The Pipeline Steering and Monitoring Committee shall provide, among others, as set forth in Article 56 of the Decree, coordination for the interventions of the administrations in the framework of the construction, operation, and maintenance works of the Cameroon Transportation System. In this respect, the Pipeline Steering and Monitoring Committee is the facilitator of relationships between Government bodies and COTCO.

4.3.3 Role of the Pipeline Inspection Service

The Pipeline Inspection Service, which is under the supervision of the Minister in charge of mines, shall provide, among others, as set forth in Article 56 of the Decree, the administrative supervision and technical control of the administration related to the construction, operation, and maintenance works of the Cameroon Transportation System.

4.3.4 The Construction Phase BP/SE/H Administrative Supervision and Technical Inspection Organization

The Pipeline Steering and Monitoring Committee and the Pipeline Inspection Service will have other responsibilities; however, the ensuing discussion will focus only on environmental issues.

The structures for the two organizations mentioned above will be established by a forthcoming decree. Regardless of the structure, it is expected that there will be one or more departments

in charge of environmental issues within these two organizations. The environmental staff will be split between the “Central Unit” and other units located at the field construction sites (“Field Units”).

Central Unit

The Central Unit will be responsible for coordinating the activities of all Republic of Cameroon ministries and agencies regarding the environmental aspects of the Project. Reports originating in the field will be reviewed by the Central Unit and forwarded to the proper agencies as appropriate. The Central Unit Staff will also manage the staff that is stationed in the field.

In addition, the Central Unit will have the following responsibilities:

- Function as the focal point for approving changes in the environmental scope/nature of the Cameroon Transportation System;
- Provide administrative supervision and technical inspection related to environmental matters and implement the Republic of Cameroon’s laws and regulations;
- Participate in the selection of Field Unit staffs;
- Supervise the work of the staff by coordinating assignments/workloads, advising on complex issues, and through periodic visits to field locations to ensure regulatory oversight quality;
- Keep the various Government bodies informed of the activities related to the Cameroon Transportation System and emerging issues related to environmental topics through verbal reports, informal written reports, or periodic formal reports as appropriate;
- Coordinate environmental-related activities of the various Government bodies; and
- Communicate with COTCO regarding compliance issues and other issues as necessary.

Field Units

The Field Units will have the following responsibilities:

- Supervision Activities:
 - Supervise the work of the Field Environmental Monitors including assigning tasks, overseeing their work and inspections, and reviewing compliance and inspection reports;
 - Review compliance and inspection reports from COTCO representatives;
 - Communicate results of inspections to the Central Unit staff via transmittal of copies of original reports, summaries of reports, or periodic formal reports as appropriate;

- Communicate with Central Unit staff regarding emerging environmental issues and areas of concern;
 - Call in environmental inspectors/specialists from competent Government bodies to conduct inspections and monitoring as needed;
 - Request for appropriate authorities to enforce Republic of Cameroon regulations (e.g., illegal poaching, timber harvesting) as needed;
 - Coordinate all activities and function as the representative of the Central Unit at the field level regarding all environmental matters;
 - Act as liaison with local communities on behalf of the Central Unit regarding environmental matters; and
 - Communicate with COTCO regarding compliance issues, emerging issues, and areas of concern.
- Biophysical Monitoring Activities:
 - Conduct audits and inspections to ensure compliance with applicable Republic of Cameroon legislation concerning biophysical issues as well as standards set out in the Project specifications and the EMP;
 - Observe pre-construction site clearing, top-soil stripping, construction works, erosion control mitigation, and site reclamation activities throughout the construction phase;
 - Monitor waste management practices;
 - Periodically inspect wastewater treatment facilities and monitor solid waste management facilities;
 - Periodically monitor effluent discharges (e.g., treated sewage, hydrotest water);
 - Monitor surface water withdrawal practices, hydrotesting effluent discharges, and the effectiveness of dust control programs;
 - Communicate through verbal and written reports to the Central Unit regarding compliance issues and areas of concern;
 - Monitor Contractor and COTCO training programs with respect to biophysical issues; and
 - Provide advice to COTCO and Contractor field personnel concerning biophysical matters and the interpretation of biophysical regulatory requirements.
 - Socioeconomic Monitoring Actions:

- Conduct audits and inspections to ensure compliance with applicable Republic of Cameroon regulations concerning socioeconomic issues as well as standards set out in the Project specifications and the EMP;
- Monitor construction works to identify socioeconomic issues and potential impacts;
- Monitor local hiring practices, local purchasing practices, and the Compensation Plan;
- Work with local communities and COTCO personnel to resolve socioeconomic issues that arise;
- Review schedules and assist COTCO in communicating pertinent information so that local populations and transhumants can make adjustments to their lifestyle patterns such that conflicts and disruptions are avoided or minimized;
- Facilitate periodic visits to local communities by COTCO representatives;
- Facilitate contacts and coordination with appropriate parties when sacred sites or archaeological or paleontological sites are discovered during construction works;
- Communicate through verbal and written reports to the Central Unit regarding socioeconomic issues and areas of concern;
- Monitor Contractor and COTCO training programs regarding socioeconomic issues; and
- Provide advice to COTCO field personnel concerning socioeconomic matters and the interpretation of socioeconomic regulatory requirements.

4.3.5 Interactions Between Administrative Supervision and Technical Inspection Organization, COTCO, and Contractor Representatives During the Construction Phase

During the construction phase of the Cameroon Transportation System, the contact for administrative supervision and technical inspection organization representatives will be COTCO and not the Contractor. COTCO/Contractor discussions will most often occur prior to and following meetings between administrative supervision and technical inspection organization and COTCO representatives.

Environmental-related communications and interactions between the Republic of Cameroon's administrative supervision and technical inspection organization regarding environmental matters and COTCO during the construction phase will occur at all levels, from the Field Units to the Central Unit. In general, the head of the Field Unit will coordinate the communications with the corresponding COTCO field supervisor. Similarly, the head of the Central Unit will coordinate communications with the corresponding manager of COTCO's in-country environmental unit. The communications will occur through a variety of methods including written reports and memos, as well as informal and formal meetings.

Meetings will include regularly scheduled meetings as well as additional meetings called on an as-needed basis. At the field level, formal meetings between administrative supervision and technical inspection organization members and COTCO representatives will be held as appropriate to discuss scheduling/planning issues and to address current areas of concern as well as emerging environmental issues. In addition, informal contacts will be made by the heads of the Field Units with the corresponding COTCO personnel to alert them to areas of compliance and other areas of concern.

At the Central Unit level, formal meetings will be regularly scheduled, but on a less frequent basis. Informal meetings and communications will also occur as necessary. With respect to formal meetings, the head of the Central Unit will meet with his/her COTCO counterpart to evaluate environmental performance based on reports from field monitors, etc., to consider plans for upcoming work and coordination issues, and to resolve any disputes/issues that could not be resolved at the field level.

4.3.6 Cost of the Republic of Cameroon's Construction Phase Administrative Supervision and Technical Inspection Organization Regarding Environmental Matters

The major costs associated with the environmental portion of the Republic of Cameroon's construction phase administrative supervision and technical inspection organization will be related to wages/salaries and benefits and other related costs. Other significant costs will include the provision of office space and other expenses associated with running an office (e.g., photocopy machines, computers, telephones, paper). Additional costs would be incurred in association with site visits and facility inspections performed by experts brought in by the administrative supervision and technical inspection organization. All costs mentioned above will be borne by the Republic of Cameroon.

Within the scope of the activities related to the inspection of the construction works of the Cameroon Transportation System, COTCO shall bear the cost of accommodation on-site, as well as the transportation from the COTCO offices in Douala or Yaoundé to the site of intervention and back, of the officials appointed for the inspection of these works, under conditions which would apply if they were COTCO's employees and within the scope of the transportation of personnel carried out by COTCO for its own needs.

4.4 THE REPUBLIC OF CAMEROON'S ADMINISTRATIVE SUPERVISION AND TECHNICAL INSPECTION ORGANIZATION REGARDING ENVIRONMENTAL MATTERS: OPERATIONS PHASE

4.4.1 General Structure and Responsibilities

During the operations phase, the general structure of the Republic of Cameroon's administrative supervision and technical inspection organization will remain the same as during the construction phase, including both the Pipeline Steering and Monitoring Committee and the Pipeline Inspection Service. The Pipeline Steering and Monitoring Committee will remain as the coordinating body. Communications between Republic of Cameroon representatives and COTCO will be as during construction (see Section 4.3.5). During the operations phase, two additional activities will be monitored by the administrative supervision and technical inspection organization, namely COTCO's road maintenance activities for one year after the commencement of operations and system easement surveillance.

The operations phase administrative supervision and technical inspection organization's system easement surveillance activities will be focused on induced access issues, such as wildlife poaching and illegal timber harvesting, in addition to biophysical issues and human encroachment on the system easement. As issues are identified, appropriate measures will be taken to enforce applicable legislation.

4.4.2 Cost of the Republic of Cameroon's Operations Phase Administrative Supervision and Technical Inspection Organization Regarding Environmental Matters

Similar to the case during the construction phase, the major operations phase costs associated with the environmental portion of the Republic of Cameroon's administrative supervision and technical inspection organization will be related to wages/salaries. Other significant costs will include the leasing of office space and other expenses associated with running an office (e.g., photocopy machines, computers, telephones, paper). These costs will be borne by the Republic of Cameroon.

Within the scope of the administrative monitoring and technical inspections to be carried out during the operation/maintenance of the Cameroon Transportation System, COTCO shall bear the cost of accommodation on-site as well as of transportation from the COTCO base (pump station or COTCO offices in Douala) which is the closest to the site of intervention to said site and back, of the administration officials with territorial jurisdiction, under conditions which would apply if they were COTCO employees.

Within the scope of the activities related to the loading of crude, COTCO shall bear the cost of accommodation at the Marine Terminal, as well as transportation from Douala or Kribi to the

Terminal and back for four officials at the most, under conditions which would apply if they were COTCO's employees.

4.5 INSTITUTIONAL STRENGTHENING IN THE REPUBLIC OF CAMEROON'S ADMINISTRATIVE SUPERVISION AND TECHNICAL INSPECTION ORGANIZATION NECESSITATED BY THE PROJECT

In order to properly execute its administrative supervision and technical inspection-related responsibilities associated with the Project, the Republic of Cameroon, either on its own or with technical guidance and financial assistance from the World Bank or other financial institutions or international aid organizations, may have to take steps to strengthen its ability to monitor biophysical, socioeconomic and health impacts associated with the Project. To reach this objective, an assistance program will need to be developed by the Republic of Cameroon. This program would be implemented by the Republic of Cameroon with the support of financial institutions and other international aid organizations.

4.5.1 Organizational Strengthening

The Republic of Cameroon has already created two structures for the administrative supervision and inspection of the Cameroon Transportation System, namely the Pipeline Steering and Monitoring Committee and the Pipeline Inspection Service. It is these two organizations that are the target for organizational strengthening efforts, including the allocation of sufficient numbers of trained personnel.

4.5.2 Training for Administrative Supervision and Technical Inspection Organization Personnel Regarding Environmental Matters

To develop an organization sufficiently able to exercise the tasks outlined in the sections above, job-specific training may be necessary. Much of this training can be satisfactorily accomplished in-country. However, some specific training needs might best be satisfied out-of-country. Examples of training that might occur out-of-country include:

- Witnessing construction of a major pipeline construction project elsewhere in the world;
- Attending specialized training courses relating to environmental sciences including biophysical, socioeconomic, or health topics; and
- Attending seminars, workshops, etc. on topics related to pipeline construction, operation, and maintenance.

4.5.3 Equipment Needs

Examples of the equipment and physical needs of the environmental portion of the Republic of Cameroon's administrative supervision and technical inspection organization are:

- The dedicated use of motor vehicles during the construction and operations phases, with several of the vehicles being fully off-road capable;
- Desktop and laptop personal computers, with associated printers;
- Office space in the field work areas during the construction phase and, if necessary, during the operations phase; and
- Office space for the Central Unit.

4.5.4 Technical Assistance

The Republic of Cameroon may need technical assistance in the following areas:

- Identifying opportunities and activities to enhance the knowledge and skill gaps of the administrative supervision and technical inspection organization's staff; and
- Jointly developing training plans.