

## CMGT 304

### Risk, Safety and Environmental Risk Management Plan Report

Students will prepare and present a comprehensive report, addressing Risk, Safety and Environmental Management for a specific construction project of their choosing. Project must be pre-approved in advance, by the instructor. Milestone dates and specific criteria for progressive submission of elements of this report are included in the assignment.

#### Grading Structure

- Report is 30% of the overall course grading.

#### Specifics

This is a team project. Your team needs to designate a Team Leader and confirm the name of the Leader to me via E-mail by Monday, March 27<sup>th</sup>. The Team Leader will serve as the conduit for communications. All future correspondence from and to your Team on this project will go thru this leader.

The final output of your team will be 5 deliverables:

1. Team leader name by March 24 or sooner
2. Submittal of Project by March 27 or sooner; approval by March 28 or sooner
3. Peer Assessment of team members (Individual) -2 pts-Due April 25
4. Team paper (Group) 14 points-Due April 25; upload original to Blackboard
5. Power Point Presentation (Team) – 9 points-Due April 25; upload original to Blackboard after presentation

#### Topic

You are to research one mega size international project. (examples such as the Boston Big Dig, China Three Gorges dam, Brazil Olympics, London Olympics, etc.) that has been completed within the last 4 years, and research and explain the following. Previous projects reviewed during the course (and submitted as exercises) are not to be considered. Include the following:

- **Background of project-description, benefits, etc.**
- **What firms participated in the project? Designers, Constructors, managers**
- **How did the project finish versus the planned initial project goals?**
- **Why did the project succeed or not succeed-be specific.**
- **Risk Management -Project Specific**
  - Boston Square (lecture Notes 3, Slide 46)
  - Each team incorporate its own numbering and lettering system

- Risk Inventory Chart-Your Top 8 Risks
  - Risk
  - Source Group
  - Probability Description and Rating
  - Impact Description and Rating
  - Revised Probability Description, Your Rational and Revised Rating
  - Revised Impact description, Your rational and Revised Rating
- Written description of why you selected the specific risks.
- **Safety Management Issues-Project Specific**
  - Safety Hazard Analysis
    - Detailed Analysis of the ‘Top Five’ Safety Hazards
      - Identification, Assessment, Evaluation,
      - Response, Monitor and Control
- **Project Specific Environmental Issues**
  - For each provide a detailed description/analysis of the Top Five Environmental Risks:
    - Performance Objectives
    - Management Strategies
    - Responsibilities (Company and individual)
    - Monitoring and Reporting-Monitoring and Corrective Actions
- **Description of additional (major) issues the construction project team experience during the duration of the project**

### **Term Paper**

- The term paper will be **10** pages (not including the title page) and formatted per “Format for Papers and Communications” under Course Information on Blackboard. All graphs, pictures, charts, etc. will be put at the back of the report as references after the last page of the report

### **Power Point Presentation**

- Presentation will take place on April 25, 2017
- Your presentation should be no more than 15 minutes-and consist of a minimum of 8 slides.
- Each member of the team must participate in this presentation!

If you have any questions on this project, please do not hesitate to have your team leader send me an e-mail

Professor Colesberry