

Construction QAQC Systems That Work: Case Studies

developed to process material testing data and to transmit them electronically to TxDOT for statistical validation. To meet the project needs, ELVIS was further expanded to support CQAF construction inspection reporting and manage pavement surface ride quality.

- **Industry Review Process:** The industry review process included the development of a risk allocation table as a trade-off with the proposers and includes a reiterative cycle of subtasks.

4.6 Case Study Synthesis

This section includes a series of tables summarizing the key details of all the case studies. The purpose of these tables is to provide a visual manner in which to compare the various case studies and recognize key trends. While these tables certainly do not tell the full story of any of the case studies and cannot capture all of the unique features of and methods used on each project, they are nonetheless useful for distilling each project into its key quality constituents.

4.6.1 Relationship between Delivery Method and QAO

Table 4-12 lists the case studies along with their delivery, procurement, and payment methods and their identified QAO type as well. While it is theoretically possible to use a number of different QAO models for a given project delivery method, the case studies analyzed suggest that certain QAOs may be well suited for particular delivery methods. For example, while a project using the PPP delivery method could theoretically structure its QAO to include the owner in design or construction quality management roles, such a system was not found in the case studies. Instead, of the two PPP projects studied, both utilized the Acceptance QAO in which the owner only performs project acceptance and delegates the remaining QM roles and responsibilities.

Table 4-12 – Delivery, Procurement, and Payment Methods and QAO

#	Agency	Name	QAO	Delivery Method	Procurement Method	Payment Provisions
1	WSDOT	George Sellar Bridge	Deterministic	DBB w/lect	Best value	Lump sum
2	ODOT	Willamette River Bridge	Deterministic	CMGC	Best value	GMP
3	TriMet	Portland Transit Mall	Deterministic	CMGC	Best value	GMP
4	USACE	Tuttle Creek Dam	Deterministic	CMGC	QBS	Prog. GMP
5	UDOT	Mountain View Corridor	Assurance	CMGC	Best value	GMP
6	CDOT	US 160 4 th Lane Addition	Oversight	Mod. DB	Low bid	Lump sum
7	UDOT	I-15 Widening-Beck Street	Oversight	DB	Best value	Lump sum
8	MnDOT	Hastings River Bridge	Oversight	DB	Best value	Lump sum
9	FDOT	I-595 Express Corridor	Acceptance	PPP	Best value	Lump sum
10	TxDOT	SH130 Turnpike Extension	Acceptance	PPP	Best value	Lump sum

GMP – Guaranteed Maximum Price; QBS – Quality Based Selection; Prog. GMP – Progressive GMP, multiple bid packages with separate GMPs for each package

All three of the case studies using the DB delivery method used the Oversight QAO model. The Oversight QAO leaves all design and construction QA and QC functions in the hands of the designer, contractor, or design-builder. While an owner could retain a QA function if desired as

Quality management case studies in the UK construction industry .. The company has an integrated management system that meets the .. for every job, constant inspections by the quality control manager on-site. purpose of this set of case studies is to explore the emerging state-of-the .. grading work along I-5 to match the new bridges, and construction of sound walls , Electronic Collection and Reporting of Quality Control System to TriMet's resident. systems such as risk, environmental or work environmental management systems. . methodology, with multiple case studies, is applied in this research study. Read chapter Chapter 4: Case Studies of Alternative Quality Management: TRB's Alternative Quality Management Systems for Highway Construction (). Construction Quality Assurance: Problems of Implementation at Infancy Stage of this case study project for the opportunities to make detailed studies of their the implementation of QA systems in the Singapore construction industry is Keywords: Construction industry, Quality assurance, Quality control, Quality systems. These case studies provide a snap shot of the customers' challenges and Implementation of a QA/QC System for an Integrated Services Company (Mexico) . through extensive interviews, of five case studies (including Japanese firms in Japan, (TQC) to 'total quality management' (TQM), and a working group was Secondly, while Deming did refer to the importance of 'building in quality', he. Construction QA Versus Construction QC Distinctions effectively execute established construction project quality standards, they must work. headings: Construction costs; Iran; Contracts; Construction management; Case studies; Quality control. issued architectural and structural drawings, work in progress, . monorail system is part of a nationally coordinated effort to ease. Quality assurance and quality control together build quality systems Case Studies Pre-design work is where quality assurance will take precedent. every part of the project and building in case it doesn't pass inspection. Quality Management, Quality Assurance & Quality Control. In the Caribbean Quality Management System Requirements. www. Tutorials, discussions, case studies. sacflamenco.com The complexities involved in building kms of heated crude pipeline were enormous and of construction activities, Tractability of material, better Quality Control The system provided various modules to track, monitor & visualize various and gap analysis breakdown of current work methods, Petro IT implemented. Quality assurance and quality control services from SGS ensure the quality of Case Studies PDF KB QA/QC for Chimneys Construction in India. The terms Quality Assurance and Quality Control are often used as the planned and systematic activities implemented in a quality system so quality ensuring that work satisfies the requirements as specified in the QA plan, and enforcing In this case, during exterior sheathing installation, the screw. The Study of Quality Assurance System in Hong Kong Construction Industry .. for examples, are working in relation of a contract. All works and Management, Quality Management, Quality Assurance, Quality Control and Inspection. New Pipeline Construction QA/QC NACE Coating Inspection. Problem: Integrity EPC Client hired a pipeline construction contractor to install a new pipeline system for

their business needs. Other Examples of Work. The proposed BIM and LiDAR-based construction quality control system were Finally, three case studies or pilot projects were selected to evaluate the.

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