ABSTRACT

ESSENTIAL ASPECTS OF MANAGEMENT ON REFURBISHMENT PROJECTS

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The recycling, refurbishment, restoration, rehabilitation or re-use of buildings for adaptive or continuing use has become an important activity in the Construction Industry. In Trinidad and Tobago, there has been a steady increase in the number of these projects being undertaken.

The nature of refurbishment works requires innovative methods of design and construction to accomplish the desired goals. The refurbishment work possesses numerous uncertainties as to the scope of the works that may only be discovered when exposing concealed components and a large proportion of the works may involve repair, patching, replacement, cleaning, etc., usually associated with maintenance.

This dissertation identifies and discusses the essential task to be performed in refurbishment projects with respect to the five phases of the project: feasibility and conceptual, planning, design, construction, close-out and start-up. The nature of the works and constraints which may be encountered are also discussed.

Some of the tasks to be performed by the Project Manager includes: assisting with the preparation of cost and time estimates and with
feasibility study; co-ordination of the specialist consultants for
design and construction supervision; co-ordination of numerous
small specialist contractors performing short duration activities;
preparation, monitoring and supervision of cost and time control
systems and quality assurance programmes.

A case study is presented to aid in identifying the nature of the
constraints which may be encountered in such refurbishment projects.

Some of the main recommendations include the following:

- Conducting detailed site investigations such as soil,
services, structural, survey, etc. These specialist
investigations may be necessary in assessing the viability
of the project particularly if change of use of the
structure is proposed, or when refurbishing old buildings.

- Prepare detailed and accurate cost and time control
systems and quality assurance programmes.

- Compatibility of materials especially where new
materials will be employed amongst older similar
materials.

- If the occupants remain insitu during the refurbishment, the
works should proceed in a manner that limits the amount of
dust, noise or visible disturbance to these occupants.

In summary, the nature of refurbishment works requires a different philosophy, particularly solutions to technical problems and constraints, as compared to the construction of a new building. These constraints and problems encountered require innovative solutions to make the project feasible.