Project Schedule and Evaluate for Potential Issues/Cost Impacts

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 The following critical path diagram represents the various activities that will take place in this project and their order.

D. Run Survey

F. Create Presentation

G. Present to Client

E. Analyze Results

C. Identify Audience

B. Design Survey

A. Sign Contract

**Duration of the Project:**

 The total time duration that will be required to complete this project is 57 days.

**Total Slack in the Non-Critical Path:**

The slack time of a project refers to the duration of time which can be prolonged or delayed, without causing a delay in the actual project. The deadline of the project will remain the same, and the project will be completed in time, but if a delay happens in this part of the project, it won’t affect the deadline of the project. The total slack time in the case of this project is 30 days. The duration in which the survey will be run is the slack period during the non-critical path.

**Project Buffer:**

A project buffer is a single, and unique buffer usually added at the end of the project chain before the last activity (Kerzner & Kerzner, 2017). In the case of this project, both stage E and F can act as project buffers because both are the predecessors of the final activity G (Presentation to the client)

**Feeder Buffers:**

 Any activity or chain of activities occurring during the process of execution of the project is known as feeder buffers (Turner, 2014). This project contains two feeder buffers in the form of stages C and D as both have ample time and a little delay in these stages would not cause any harm to the deadline of the project.

**References**

Kerzner, H., & Kerzner, H. R. (2017). *Project management: a systems approach to planning, scheduling, and controlling*. John Wiley & Sons.

Turner, J. R. (2014). *Handbook of project-based management*(Vol. 92). New York, NY: McGraw-hill.