

Wednesday, 3 April 2019 - 2:15 - 2:30pm

PACRIM Congress 2019

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INTRODUCTION

- Purpose of our proposal
- Reality check
- Why is it important to have more transparency for investor confidence
- What does a feasibility study (FS) look like
- Proposed Competent Person (CP) structure
- What this new structure will achieve
- Recommendation



Purpose of our proposal

The share market and mining companies have recognised that greater transparency disclosure is required in the promotion of mining projects to attract a larger proportion of investment funds available in the equity market.

"We propose an improved process for greater transparency around disclosure and use of Feasibility Studies (FS) to enhance and attract investment confidence in the resources industry"



JORC Code states

The Feasibility Study will contain the application and description of all Modifying Factors (as outlined in Table 1, section 4) in a more detailed form than in the Pre-Feasibility Study and may address implementation issues such as detailed mining schedules, construction ramp up, and project execution plans.

Is this sufficient ??



A reality check

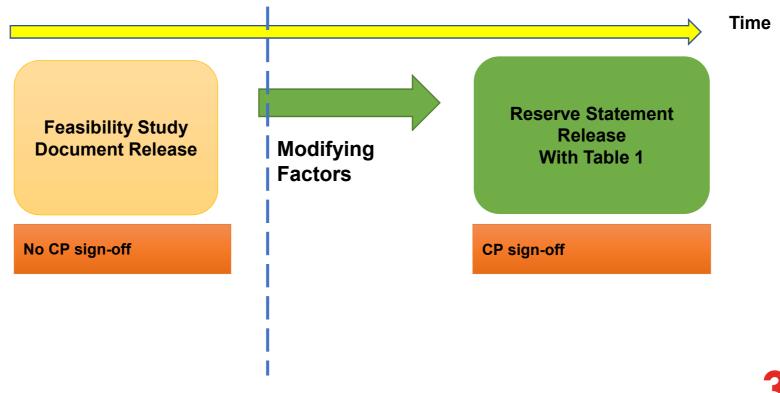
No requirement for a Competent Person (CP) sign-off for FS or PFS sign-off, unlike Resource or Reserve Statements that are prescribed in the JORC Code

The "Table 1" that accompanies the Reserve Statement release draws heavily on the Modifying Factors (MF's) produced in the FS or PFS, with the following potential shortcomings:

- Typically, a CP with relevant experience signs off the Reserve Statement. However the CP may not be qualified to manage a FS
- This person may not have been involved in many of the aspects of the FS or PFS, which
 derive the MF's used in the Reserve Statement.

Does this mean the CP for the Reserve is signing off on the FS?

Current situation based on JORC





What is the probability of a successful project outcome?

- 50% of projects overrun budget
- 50% of projects overrun schedule
- 25% of projects are delivered inside both budget and schedule

This track record creates an environment of risk adversity and low investor confidence



So why are so many projects failing?

- Fail to establish core technical aspects of geology, mining, metallurgy at study phases
- Ignoring the sustainability and licence to operate aspects
- Prefeasibility studies failing to rigorously find the best investment case
- Thinking bigger will be better chasing economics by only upsizing the project
- Assuming optimistic commodity prices for the life of mine
- Producing flawed feasibility studies in the rush to get into production
- Not integrating studies at technical, project and business levels
- Inadequate project implementation planning
- Assuming project management should not be difficult
- Not conducting good quality reviews during the study and implementation phases
- Failure in project controls leading to surprises for company directors
- Believing that things go smoothly with a project.

We are not only letting down investors but our industry as well

Business Readiness and Liabilities Aspects of an FS

Summary Level Table of Contents

- 1. Summary and Recommendations
- 2. Project Description and Development Approach
- 3. Risk
- 4. Health and Safety
- Environment
- 6. Geology and Mineral Resource
- 7. Mining and Ore Reserves
- 8. Mineral Processing
- 9. Waste Management
- 10. Infrastructure and Services
- 11. Logistics
- 12. Human Resources Project Execution and Operations
- 13. Technology and Information Systems

- 14. Project Execution
- 15. Operations
- 16. Closure and Rehabilitation
- 17. External Relations
- 18. Capital Costs
- 19. Operating Costs
- 20. Marketing
- 21. Ownership and Legal
- 22. Commercial
- 23. Financial Analysis
- 24. Funding
- 25. Status Of Studies
- 26. Work Plan Future



Why is it important to have more transparency of studies

- Studies are the outcome of shareholders funds converted into an asset in the form of Intellectual Property
- Studies form the basis of management approvals for the next stage of investment and eventually the development of the asset
- As with projects studies need a structure of the work to allow the scope, cost, quality and time to establish and manage the asset.



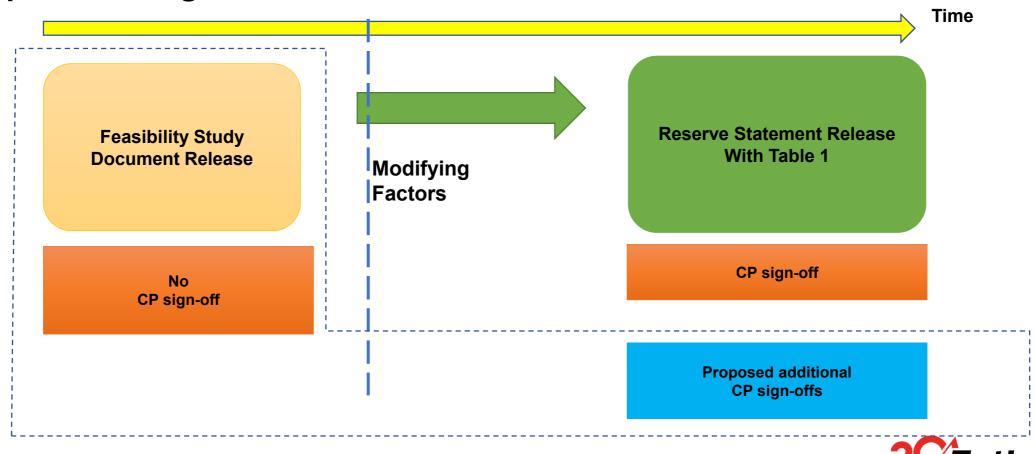
Proposed Options to be considered

- Additional CP sign-off for critical MF's in the determination of Reserve Statements
- Table 1 of the JORC Code to include a "business readiness" MF
- Additional sign-offs to include CEO or CFO with responsibility to deliver business case
- Funding and business readiness included as a standard in feasibility studies
- Sign-off by a CP with recognised experience in feasibility studies.

Outcomes

- Provide greater transparency to enhance investor confidence
- Creates accountability for those responsible in delivering the investment recommendation.

Proposed changes to JORC code



RECOMMENDATION

We encourage the JORC committee to consider our suggestions for further discussion with the view of:

Creating greater transparency around disclosure and use of Feasibility Studies (FS) to enhance and attract investment confidence in the resources industry.



