

# Adequate Design for a Construction License

When is enough, enough?

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# Context

## Construction License Approval

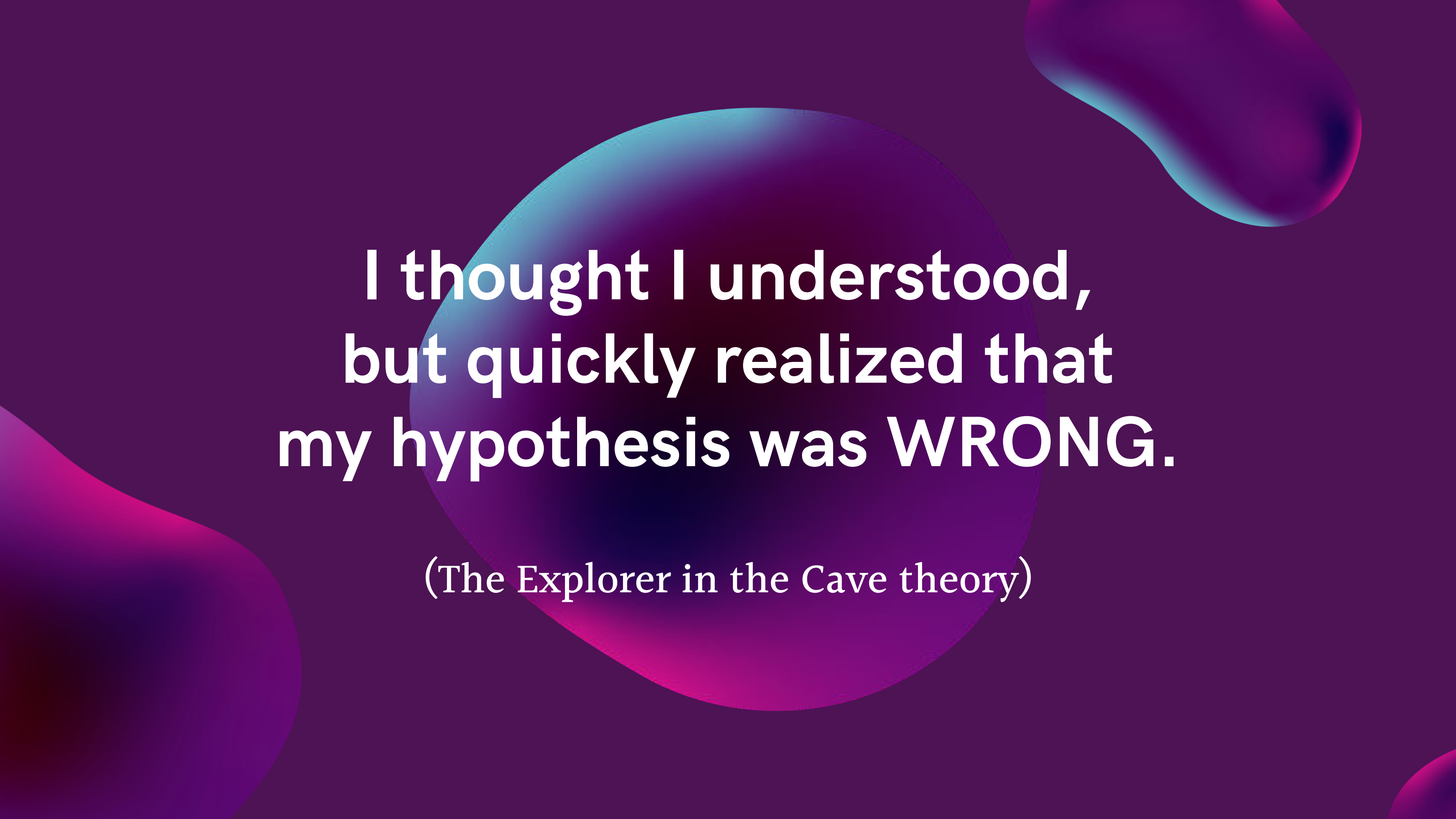
To gain approval for a construction license, the application (PSAR) requires enough initial design information to lay the groundwork to ensure the safety of people and the environment.

## Lack of Adequate Design Cost

Each review cycle costs milestone delays and personnel churn for both the licensee and review staff.

## Objective

Examine the causes of extended review cycles and propose a framework for improving the PSAR application process.

The background is a solid dark purple color. It features several large, overlapping, organic shapes in lighter shades of purple and blue. One large, rounded shape is in the upper right, another is in the lower left, and a large, irregular shape is in the center, partially behind the text.

**I thought I understood,  
but quickly realized that  
my hypothesis was WRONG.**

(The Explorer in the Cave theory)

# A New Schema Materialized

## Applicant:

Inadequate grasp of how the applied design criteria translate into complete design bases.

## Staff:

Sometimes uses hyperbole to make a point.



Incomplete design basis information which causes review comments that use exaggerated language to drive home the point.



This in turn exacerbates defensiveness and a decreases faith in the reviewer's grasp of the content.



...which causes the licensee to answer in guarded, sometimes condescending statements that only worsen the situation.





# Suggestions

# Applicant

- 1) Adapt design criteria to the unique needs of your reactor.
- 2) Apply only those criteria.
- 3) Describe the design bases systems derived from those criteria in enough detail for the uninited to understand coverage.

# Staff

- 1) Trust the comment to rest on its own merit without driving the point home.
- 2) Identify "just curious" questions as such.



# Crucial Conversations

## Have the %@&\$! Conversation

- Many conversations between Staff and Applicants can be informal/ "preliminary".
- Review the questions before the chat, but don't bias your answers by writing them.
- Meeting with the intent to primarily understand first and to be understood secondarily will alleviate most of the work to complete the review cycle.

That's All, Folks

Questions?

A sincere thank you to the Applicants and  
Staff who graciously supported my  
research.

(p.s. – Steve Reese is still handsome.)