

Examples of Rational Process Use During Project Implementation

Everything goes according to plan until work package 5.1 Robot Sites Visited. One of the site visits was unexpectedly postponed at the request of the host site, so the duration of the work package increased from 3 to 4 days. The last-minute nature of the change prevented the project team from making arrangements to start work package 5.2 Robot moved and installed on March 22). But other concerns crop up on March 22...

Project Environment on March 22

- The plant manager learns that one of the two long-term clients has asked for a temporary production stoppage.
- The engineering manager says work package 5.1 will be completed by the end of the day (a day late). This will affect the start of work package 5.2 (originally scheduled to start on March 22).
- Engineer informs engineering manager and project manager that a small, but key component of the robot is missing. This could delay the completion of work package 5.2 (originally scheduled to start on March 24).
- Maintenance manager finds out that the portable crane they were renting has failed inspection. This will affect the start of work package 5.2 (originally scheduled to start on March 22; now tentatively scheduled to start March 23).
- Order entry has placed a medium-sized but high-price-point order for materials that can only be produced on Line A.

The project manager questions those with primary responsibility for the work packages threatened by the various changes in the project environment. He uses Situation Appraisal to scan the environment and determine what action to take and whom to involve in resolving the issues.

The following project documents were created as a result of this scan:

- Situation Appraisal
- Managing Involvement
- Decision Analysis
- Potential Problem Analysis

The highest priority issue is delivering the new order, which is not within the scope of the project but has an impact on it. The project manager consults the entire project team (C2 leader behavior) to analyze the following binary decision: Continue the project as scheduled or delay the project to complete the new order? This binary decision statement is then raised: What's the best way to handle the Robot Installation project and the new order? The project manager also elects not to use any MUST objectives to make this decision.

Both these actions give the project manager several alternatives from which to make a choice. The project manager then presents his recommendation to senior management who decide to continue with the project at a more relaxed pace while diverting some of the project resources to producing the new order.

Once the decision is made, the project manager treats the two adverse consequences, identified during the decision analysis as potential problems. He takes appropriate preventive action and prepares the most cost-effective contingent actions to ensure the decision to complete the new order and continue with the project is implemented successfully.

The next highest priority issue is to find a crane rental vendor. For this routine decision, the project manager instructs Procurement to use their standard objectives for renting such equipment, but to make sure that: safety is a MUST, availability on the desired date is a MUST, and standard pricing is a highly weighted WANT.

At the end of the week, the project team reviews the status of concerns identified during the March 22 Situation Appraisal and scans the project environment for new threats and opportunities.

For example...

Situation Appraisal (continued)

Plan Next Steps

Determine analysis needed

- Do we need further clarification?
- Do we have a deviation? Is cause unknown?
- Do we need to know the cause of a deviation?
- Do we need to make a choice?
- Do we have an action or plan to protect (enhance)?
- What do we need to do about the concern?
- What additional analysis is needed?

Plan Involvement

Determine help needed

- What needs to be done and when?
- Who needs to be involved for...
- Information?
- Analysis?
- Creativity?
- Commitment?
- Approval?
- Implementation?
- Development?
- Who will document our process and results?

Situation Appraisal



Identify Concerns

List threats and opportunities

- What deviations are occurring?
- What decisions need to be made?
- What plans should be implemented?
- What changes are anticipated?
- What opportunities exist?
- What bothers us about...?
- Separate and clarify concerns
- Who do we mean by...?
- What exactly is...?
- What else concerns us about...?
- What evidence do we have...?
- What different deviations, decisions, or plans are part of this concern?

Set Priority

Consider current impact, future impact, and time frame

- Which concern should we work on first?
- What is the current impact on people, safety, cost, productivity, customers, reputation, etc.?
- Which concern is most serious?
- If left unresolved, how and when will the seriousness change? What evidence do you have?
- Which concern is getting worse quicker?
- What is the deadline? When do we need to start?
- When would resolution become difficult, expensive, or impossible? What evidence do you have?
- Which concern will be hardest to resolve later?

Plan Next Steps

Determine analysis needed

- Do we need further clarification?
- Do we have a deviation? Is cause unknown?
- Do we need to know the cause of a deviation to take effective action?
- Do we need to make a choice?
- Do we have an action or plan to protect (enhance)?
- How much of the process is needed?

Plan Involvement

Determine help needed

- What needs to be done and when?
- Who needs to be involved for...
- Information?
- Approval?
- Implementation?
- Creativity?
- Development?
- Commitment?
- Who will document our process and results?



Copyright © 1986-2008 Kepner-Tregoe, Inc. All Rights Reserved.

710-03-DDPMA.2
9/4/08

Involvement Process

1 Define the Situation:

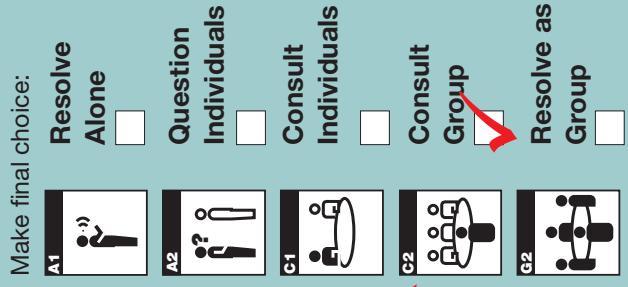
The Robot Installation project is currently a day behind schedule. The project can still be completed on time if more resources are assigned to work package 52 Robot Moved and Installed. However, other concerns have cropped up, one of which is the temporary suspension of production of one of the two large orders for which this project is being undertaken. The other concern is that of a new order which has a high price point but can only be produced on Line A. The project manager is confronted with a decision: Continue the project as scheduled and incur a cost overrun or postpone it until the new order that will generate more revenue and that can only be produced on Line A is completed. The project manager wants to ensure that he involves the right people in the decision and adopts the right leader behavior. He is aware that the project team would like to complete the project and that the organization might not want to lose a revenue-generating opportunity.

2 Assess the Variables:

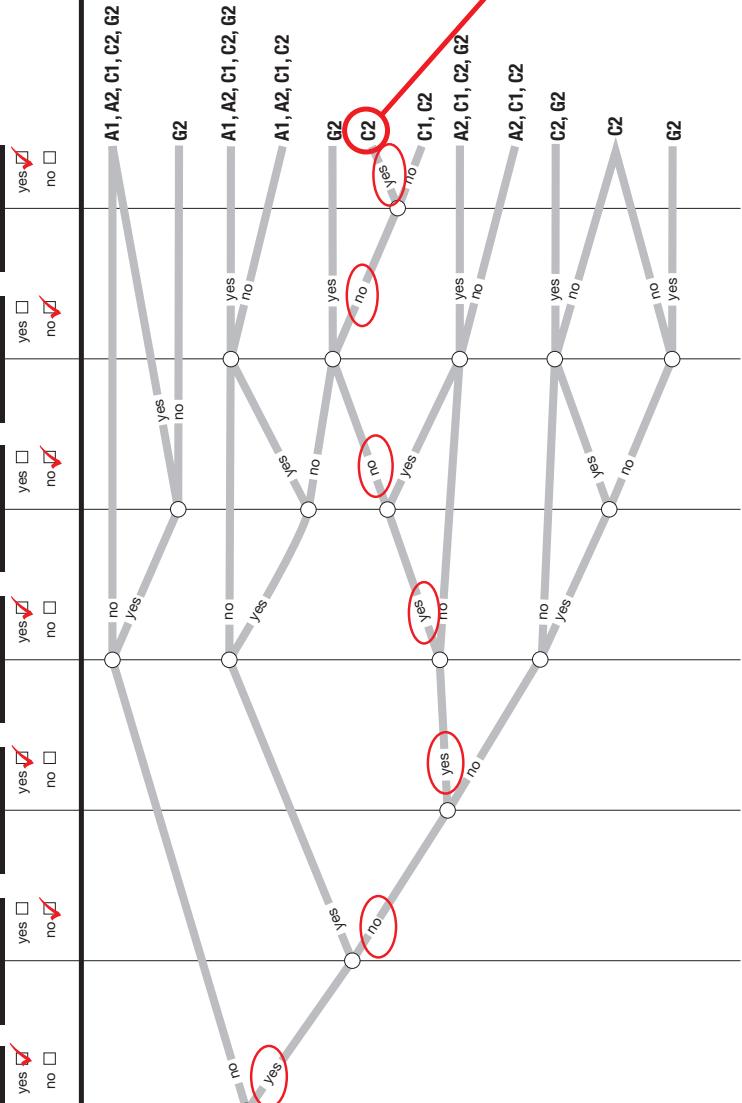
Solution	Does it make a big difference which course of action is adopted?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Information	Do you now have enough information to find a superior solution?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Structure	Do you know exactly what information is missing and how to get it?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Commitment	Is commitment of others critical to effective implementation?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Participation	Will they commit to a conclusion made by you without their active participation?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Agreement	Is there general agreement between the group and the organization in this situation?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			
Alternatives	Is there likely to be conflict about alternatives within the group?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			

3 Select the Behaviors:

Identify effective behaviors



Make final choice:



For example...

Decision Analysis

Decision Analysis

Clarify Purpose

State the decision What is the purpose of this decision?
What is the appropriate decision level? Include a choice word, a result, and 1 or 2 key modifiers.

Binary: Continue the project OR Delay the project?
Raised: What's the best way to handle the project and the new order?

Develop objectives
What results do we want?
What resources should we use or save?
What restrictions do we have?

Objectives
Complete the project within original budget

Measure \$9,500
Complete the project within original budget

Complete the project as originally scheduled

Meet the project's performance objectives

Deliver the new order on time

Deliver the new order to customer's expectations

Utilize existing people

Observe all safety regulations

Evaluate Alternatives

Classify objectives Generate alternatives
If the objective is mandatory, measurable, and realistic, label it a MUST (M).

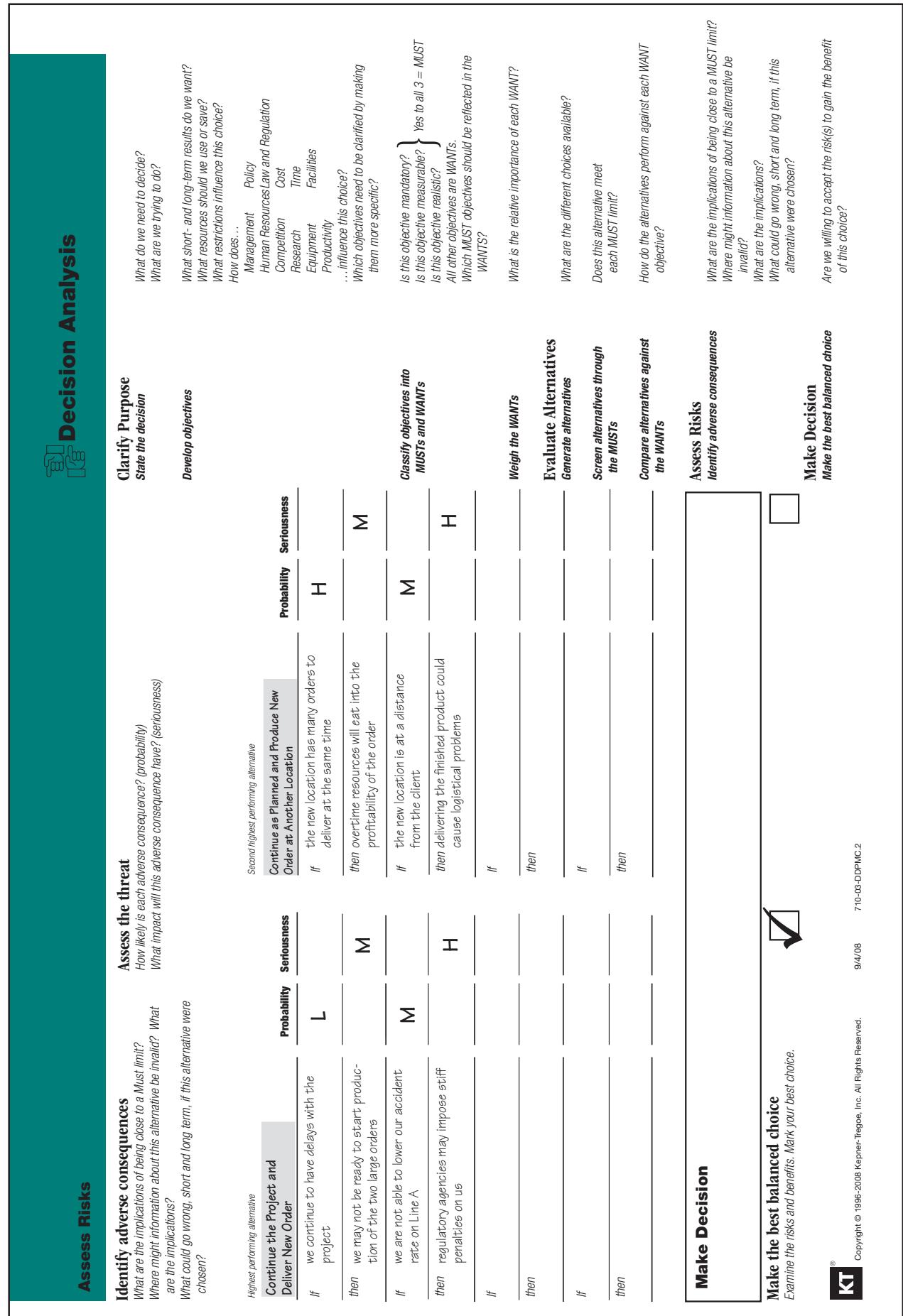
Screen through MUSTs/Compare against WANTS
How does this alternative satisfy this objective?

Performance: MUST — Eliminate any alternatives that do not meet all MUST objectives. (Label them No Go.)
WANT — Rate the performance of each alternative against the WANT objectives.
Record information on performance.

Alternative 1 Weigh the WANTS For the other objectives, what is the relative importance of each WANT?	Performance Score	Continue as Planned and Not Deliver New Order	Performance Score	Continue the Project and Deliver New Order	Performance Score	Alternative 4 Continue as Planned and Produce New Order at Another Location	
						Should be able to complete 36s estimated	Possible cost overrun (\$1,600)
Meet defined standards	10	10	100	Likely delay of 1 day because of missing robot part, and no available crane to move the robot	0	Will not meet this objective	5
Meet defined standards	10	10	100	Should be able to meet the performance objectives as defined	10	Wait 2-3 days for missing robot part, crane availability, and to complete new order	10
Start-up costs	8	0	0	Cannot meet timeframe if Line A continues to be down until March 31	10	Should be able to deliver the new order on time	7
Meet agreed quality standards	10	0	0	Order can be produced only on Line A	10	Should be able to meet this objective	10
No additional resources hired	4	5	20	To complete the project as planned, 2 additional electricians and maintenance personnel are needed for 2 days	10	Will be able to meet this objective	7
As defined by regulatory agencies	10	10	100	Safety procedures incorporated into project plan	5	Line A currently known to have high accident rate	5
						Line A currently known to have high accident rate	50
						May need additional resources to do both projects	28
						Will be able to meet this objective	10
						May need additional resources to do both projects	40
						Will be able to meet this objective	10
						Will be able to meet this objective	42

For example...

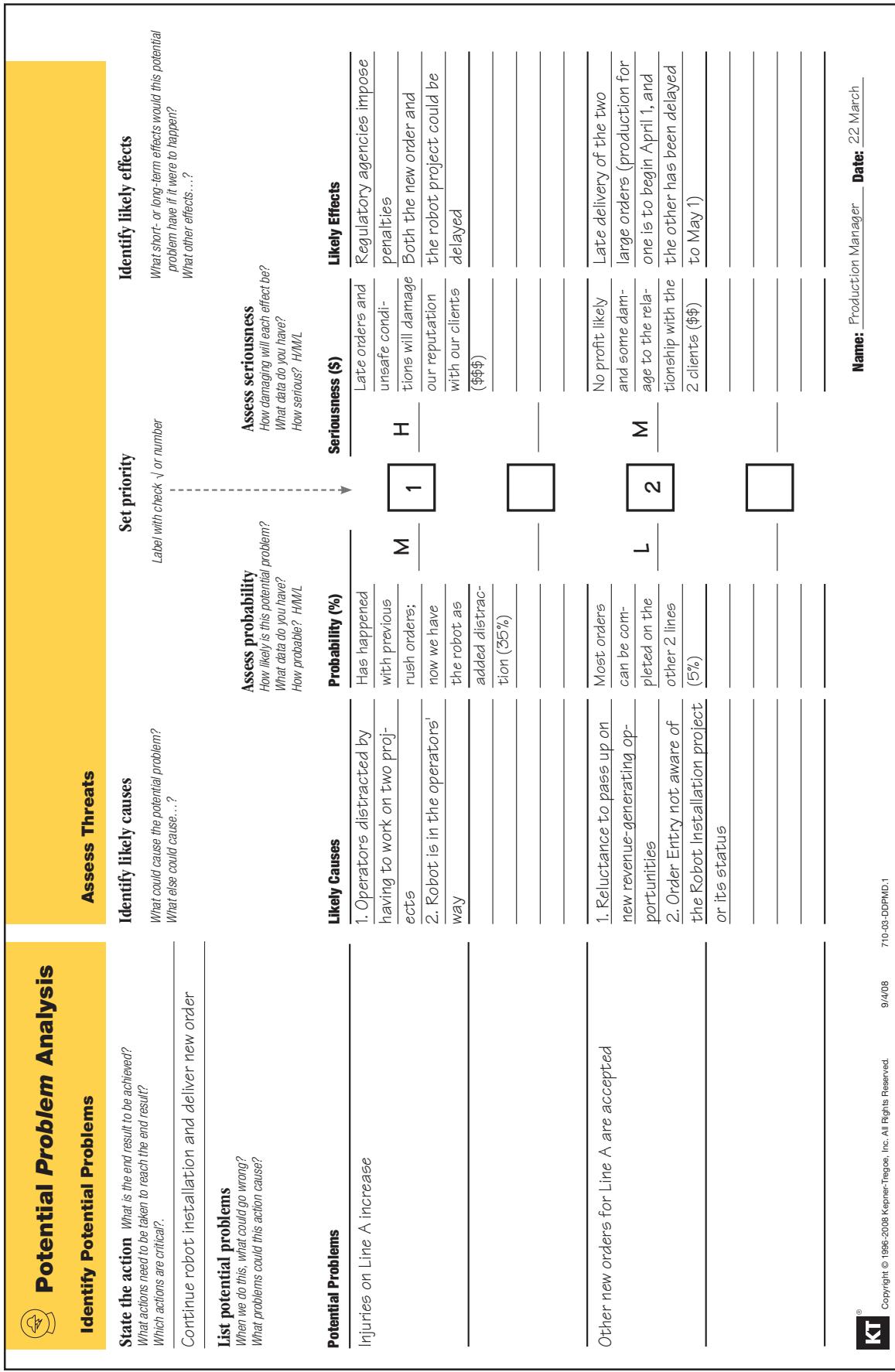
22 March Decision Analysis (continued)



For example...

Potential Problem Analysis

2222 March Potential Problem Analysis conducted on the adverse consequences identified in the decision to “continue the project and deliver the new order.”



For example...

Potential Problem Analysis (continued)

