









MPSA Priorities

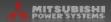
- 1. Environmental Health & Safety
- 2. Quality
- 3. Delivery
- 4. Improvement
 - I deas Program
 - MTWI
 - Lean (6S, Kaizen, Flow)

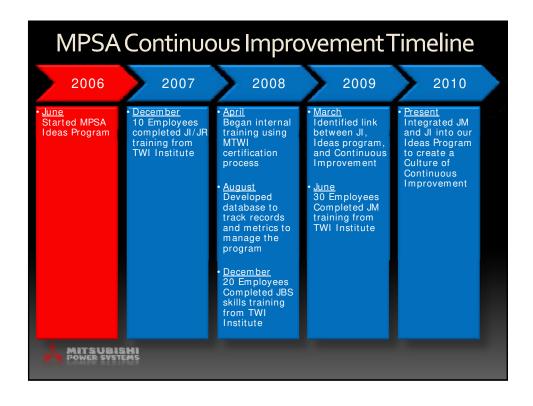




MPSA Vision / Goals - 2006

- Improve our culture by providing a better means of communication between Employees and Supervision.
- Capture the creativity and ideas of those who know the work the best.
- Improve our productivity and standardize work across shifts.
- Continually improve our processes.







What is considered a MPSA Idea?

- An idea is a response to a problem
 - A method to finding a solution
 - Effects Safety, Quality, or Productivity

We also know that:

- Every idea improves MPSA in some way
- Many small ideas are more beneficial than a few large ideas
- Ideas spawn more ideas





IDEAS / MTWI WORK SENARIO VIDEO — 02 MITSURISMI



Why Do We Have an Ideas Program?

- Improves Safety, Quality, and Productivity
- Opens Communication
 - Employees want to be heard
 - Front-line employees see improvements that managers don't see
- Increases Employee Morale & Involvement
- Builds Trust, Confidence & Respect
- Motivates Employees
 - Personal Satisfaction
 - Public Recognition







MPSA Ideas Program History

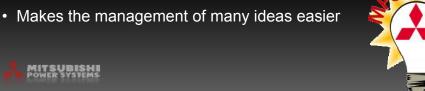
- Initiated in June of 2006
 - · Direct Team felt that nothing was being done about their ideas
 - · Catalog the great things we are doing instead of losing our improvements
- Ideas Are Free
 - by Alan G. Robinson and Dean M. Schroeder
- First year just over 100 ideas Now at over 5,800
- Supported strongly by MPSA top management
- Two types of Ideas "Regular" and "JDI"



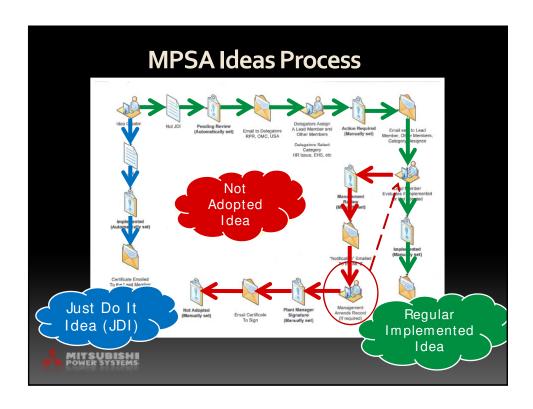


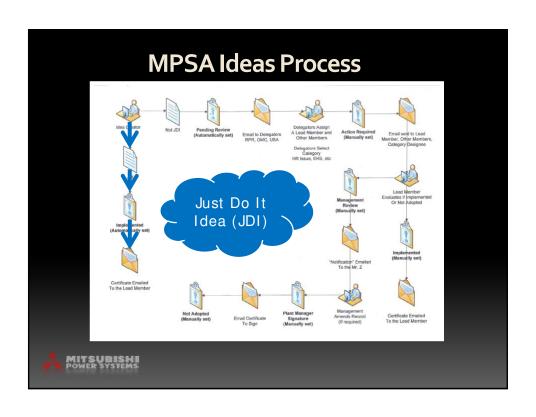
IDEAS Management System

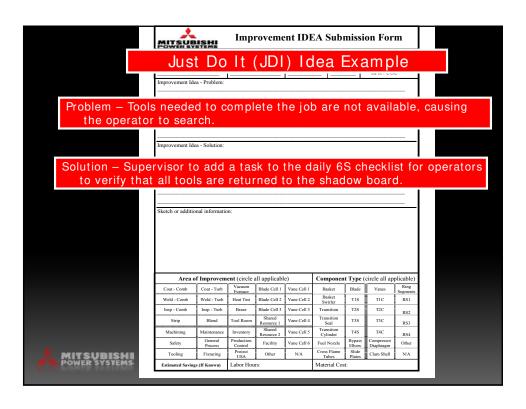
- · Automated SharePoint Database System
- Emails: assignment, notification, and implementation status
- · System doesn't allow Ideas to be deleted out or rejected without Top management approval
- Multiple user system
- Protects from data corruption
- Enables ideas delegation
- Makes inputting ideas simple

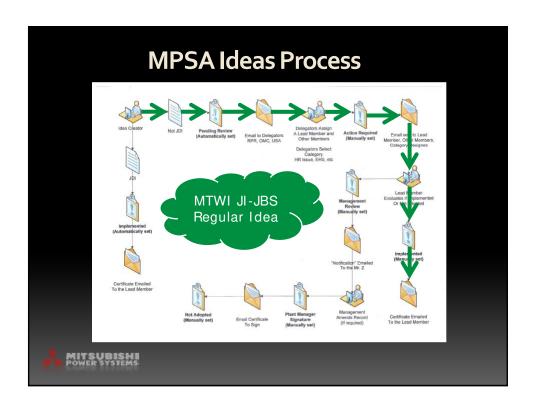


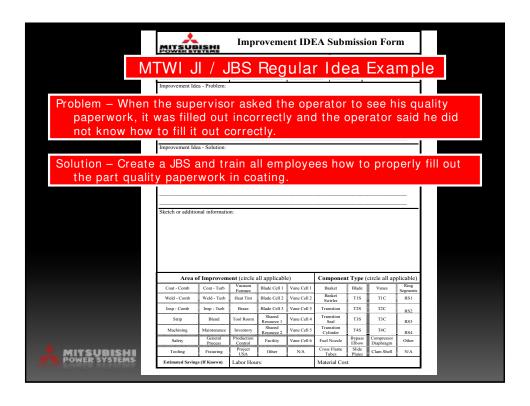


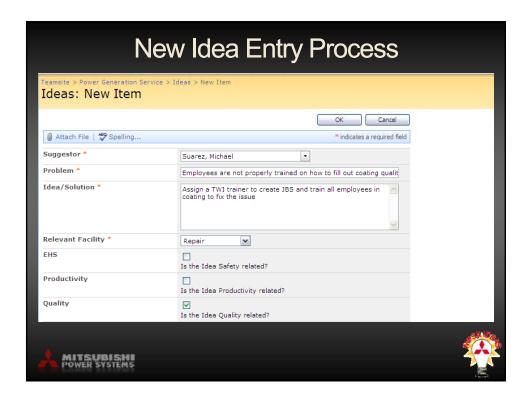












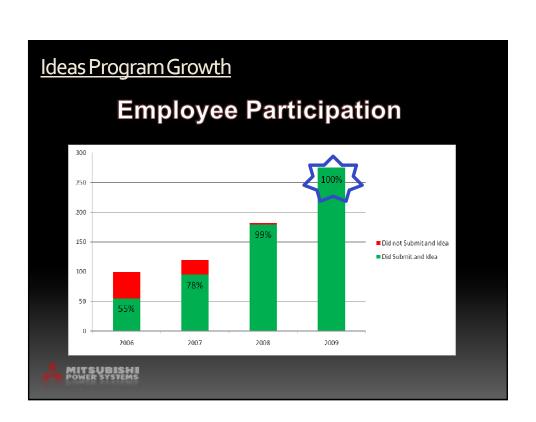
New	New Idea Entry Process								
Process Category	Blade Cell 1 Blade Cell 2 Blade Cell 3 Blade Cell 4 Blend Braze Coat EDM Engineering Equipment Facility General Process Heat Treat Inspect Inventory Lean Machine Maintenance Maintenance Marintenance M								
MITSUBISHI POWER SYSTEMS									

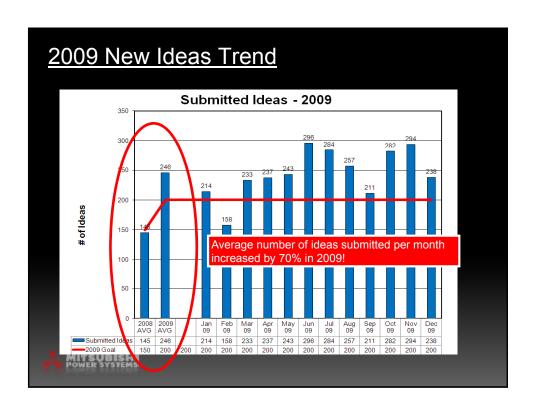
New	Job	Bre	eak	dow	'n	Sh	neet (J	IBS)
	Operation: Parts: Tools and Materials Common Key Points	Coatin Vacuu n/a n/a	g-Agb Pre m Check T	essure & FMP#9	JBS# R314 OSC#		1127 re working on the correct we need traceability.	
Œ	IMPORTANT S A logic of the when shape hape	STEPS al segment operation something pens to the work	Traveler to see rk sequence K HOW	EX POINTS Things in steps that 1. Make or break th 2. Injure the worker 3. Make the work ea dure should be per	operation and all been signed off. at will: he job r asier 1/To imp		REASONS List reasons for the key points ve efficiency of the	
	1/Check pressure gag 2/Check vacuum gago	2.	1/With the repressure gasteween 2- 1/With the revacuum gastem aminimum	eclaim on, check the age to ensure that its 8 psi.	gered.	1/If pressur filters ne 1/If vacuum the filter		
	3/ Reset 1PM alarm	•	rest the alar	ms.		1/ I his is fo	or accountability	
				uctions are ava ires and more c				

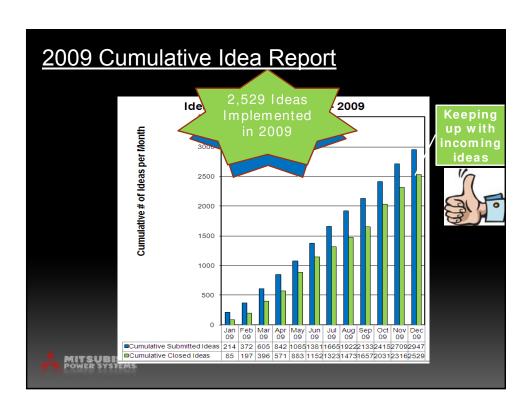
MPSA Ideas Program 2010 Goals

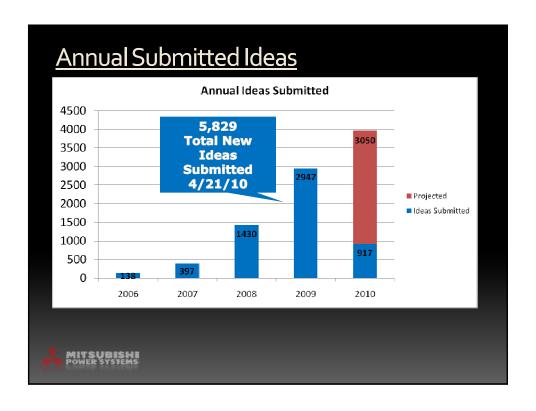
- 100% participation for both facilities
 - 1 idea per month per employee
 - Average 200 ideas submitted monthly
 - Average 200 ideas closed monthly
- Successfully manage the growth of our IDEAS program
 - Effectively use IDEAS teams
 - Implement Quarterly Idea Themes



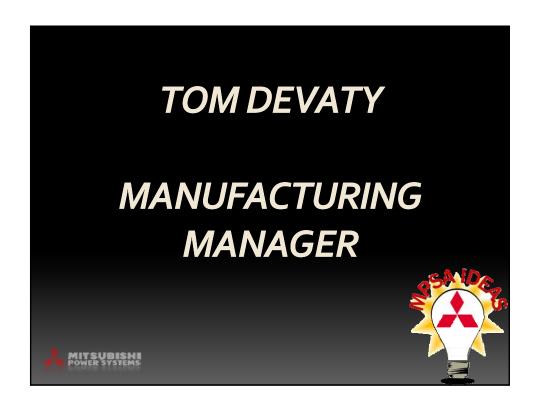


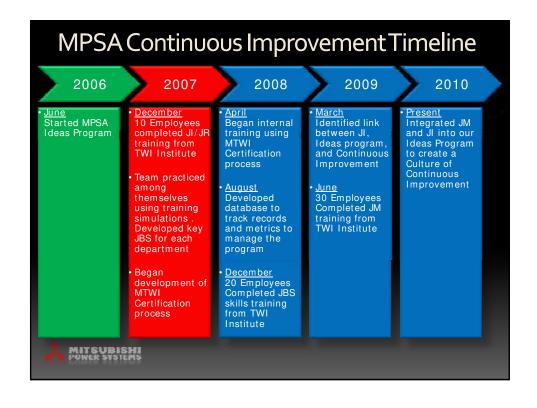












MPSA's Approach to TWI

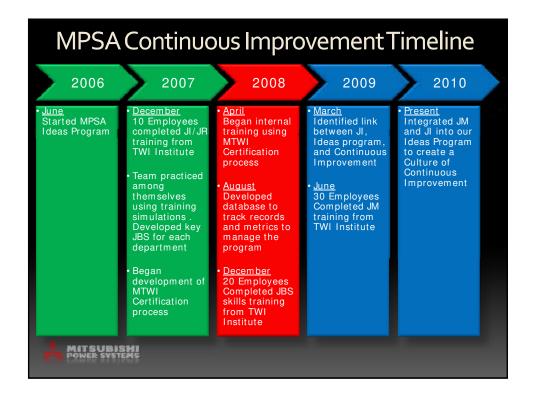
- A team of 8 Employees representing all skill sets and 2 Supervisors attended the week-long TWI training in JR & JI
- Created 2 teams, each led by a Supervisor
- Held weekly meetings to discuss plans of action and progress
- Created and evaluated JBS (Job Breakdown Sheets) from each trainer



MPSA's Approach to TWI

- Team members practiced the TWI method of training, following the principles learned
- Each trainer performed 3 live simulations (minimum) and were critiqued by the team members using rating sheets
- Upon unanimous approval, "MTWI Certified Trainer" was added to their security badge





MPSA's Approach to MTWI

- 4 new trainer candidates volunteered or were chosen to participate in the internal MTWI training
- Candidates were each mentored by a team of 2 TWI certified trainers
- Breakdown sheets were created and evaluated by their Mentors each week
- Data base was created in Sharepoint to store and retrieve MTWI Breakdown sheets, track revisions, training completions

MPSA's Approach to MTWI

- Candidates perform 3 live training simulations (minimum) and are evaluated by the core group before being deemed as certified MTWI trainers
- Training forms are completed each time an Employee is trained using MTWI method – forms are signed and scanned to a file
- All Production Supervisors are also MTWI certified trainers



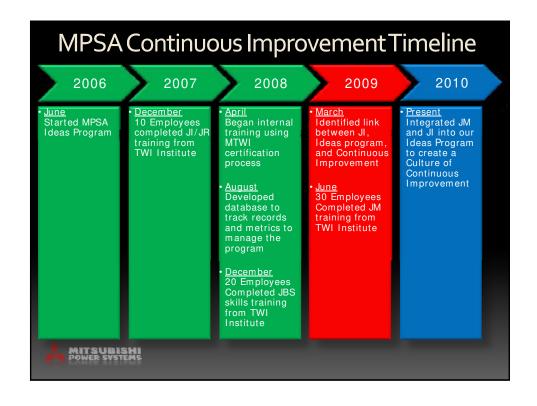
MPSA's Approach to MTWI

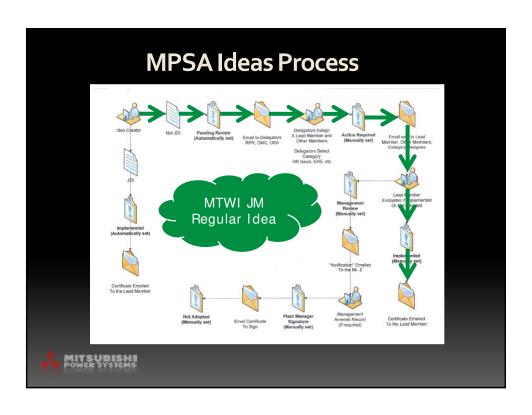
- Continuous discussions with Manager to clarify vision, training strategies, program foundation (JBS), evaluation of trainees
- MTWI Audit of trainees/trainers
- Maintained Trainer participation & proficiency Records

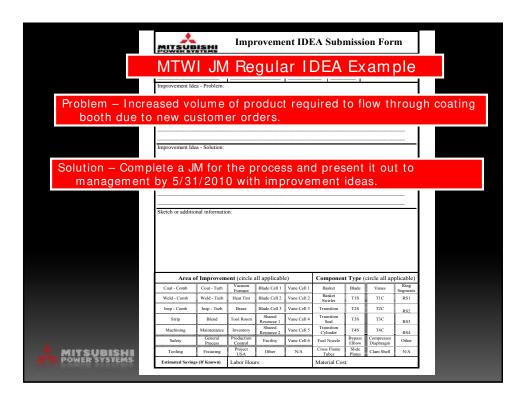


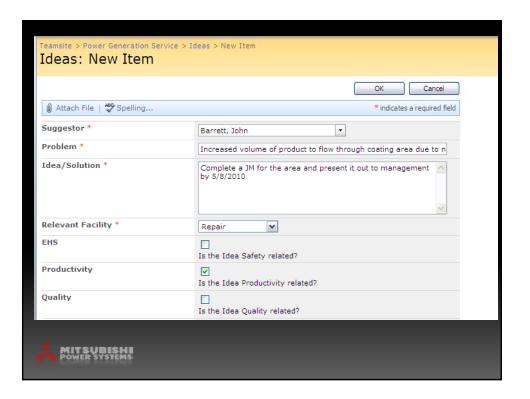
Name: John Crockett Date: 7/15/08	Operation: WI# OSC 6280 - Weld Repair of Mating Surfaces							
Trainer Jane Products Date: 77 297 00	- P	1						l l l l l l l l l l l l l l l l l l l
Step 1 - PREPARE THE WORKER:	Ann	Total		2		4	5	Comments
/ Did the Trainer introduce themselves and their position	5	20	1	-	-	4	4	Need to position trainee
2/ Did the Trainer state the job ?	5	20			Н		4	Good job mentioning safety issues
/ Did the Trainer find out what the person already knows	5	20	-		\vdash		4	Mention the tools that are going to be used
t/ Did the Trainer place the person in the correct position	2	8	-1	2	1			
M/ Did the trainer put the trainee at ease ?	4.75	19		П	\Box	1	3	
Step 2 - PRESENT THE OPERATION						_		
/ Did the trainer tell, show and illustrate one important step at a time ?	4.5	18				2	2	Make sure trainee can see
2/ Did the Trainer do it again stressing the key points ?	4.75	19				1		Great job presenting
B/ Did the trainer do it again stating the reason for the key points?	5	20			\Box		4	Nice job being organized
I/ Did the trainer instruct clearly, completely and patiently but don't give them nore information than they can master at one time?	5	1			ш			
nore information than they can master at one time r	5	20	\vdash	-	Н	-	4	Great use of terminology, and good voice tone Mentioned key points and important steps together, be careful
	+		-	-	Н	-	-	Mentioned key points and important steps together, be careful
Step 3 - TRY OUT THE PERFORMANCE	-		-	-	Н	-	-	
L/ Did the trainer correct and guide the trainee	5	20	-	\vdash	\vdash	-	4	They had good retention, repeat information back to him
2/ Did the trainer correct and good the trainee	4.75	19		-	Н	1	3	siney nau good retention, repeat information back to nim
I/ Did the trainee repeat the key points back to the trainer	5	20	-	-	\vdash	•	4	
I/ Did the trainee receat the reasons for the key points back to the trainer	4.5	18			-	2	2	
)/ Did the trainee understand the reasons for the key points fully	5	20			\Box	7	4	
Step 4 - FOLLOW UP								
1/ Did the trainer assign a designated person to answer questions if he or she	+			\vdash	Н	_	\vdash	
was not available	4.73					1	3	
2/ Did the trainer encourage and answer questions during the training session? If Did the trainer let the person know that there are more detailed work instructions available for reference?	1.5	18	2	2	Н	2	2	Please don't forget to talk about the Work Instruction at the end.
4/ Do you believe the trainee retained information from this training session?	4.5	18			П	2	2	
								Great Job
2) Not a strong understanding of the skill set requirments 3) Skill set needs further refinement 4) Skill set vas properly displayed, could have been improved upon								
## Object the trainer extained information from this training session? TOTAL 1) this distingturies will set 1) this astrong understanding of the skill set requirements 3) kill set reveal by the skill set requirements 1) kill set was properly displayed, could have been improved upon 5) kill set was properly, and fully displayed.	4.47	18				2	2	Great Job



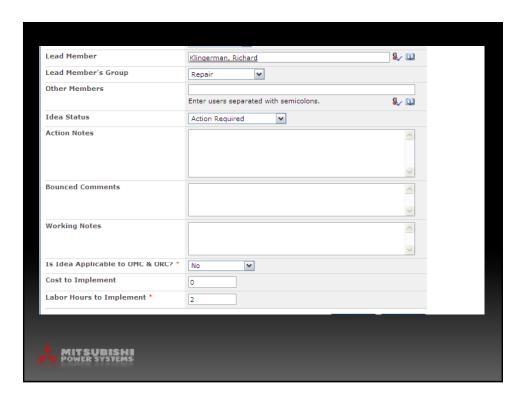


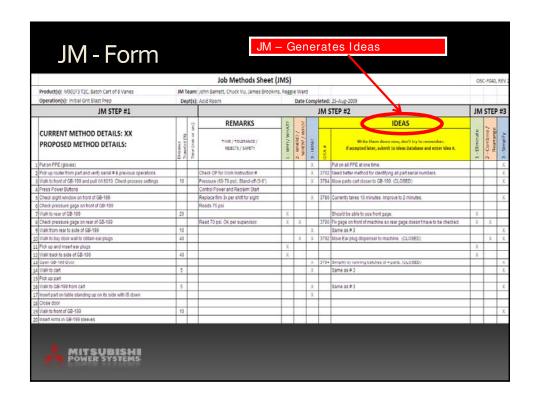


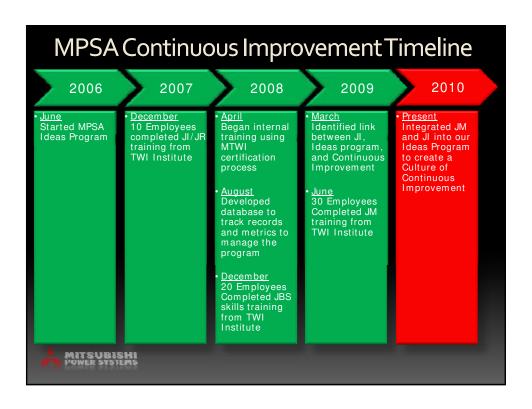


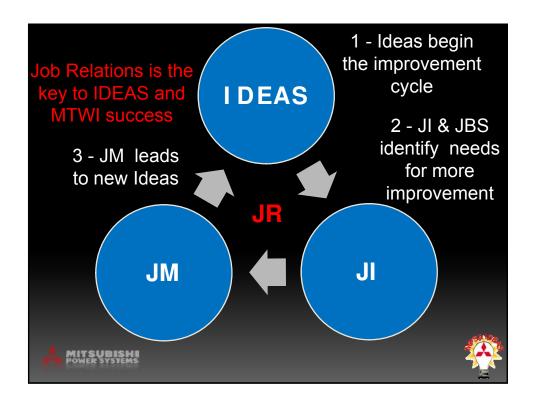


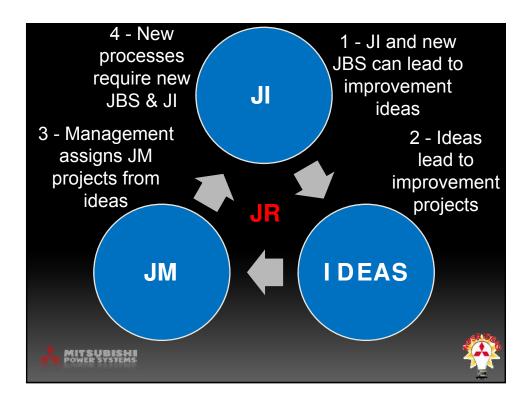
Process Category	Blade Cell 1
	Blade Cell 2
	☐ Blade Cell 3
	Blade Cell 4
	Blend
	☐ Braze
	Coat
	EDM
	Engineering
	□ Equipment Process Category - MTWI (JM)
	Facility
	General Process
	HeatTreat
	Inspect
	□ Inventory
	Lean
	Machine
	Maintenance
	₩TWI-JM
	MTWI-JBS
	☐ MTWI-JI
	Other
	Production Control
	Project
· wirelinieur	
POWER SYSTEMS	

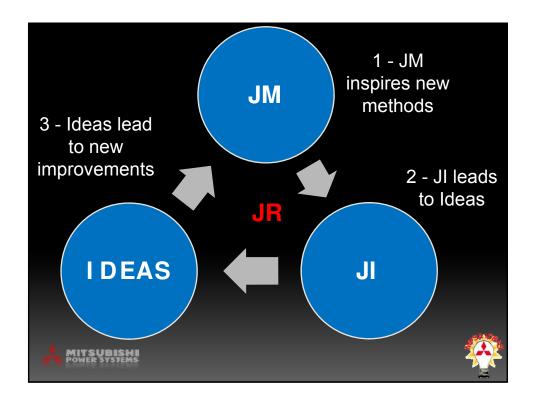












MTWI/Ideas INTEGRATION

- Job Relations (JR)
 - Idea is turned into Leadership team
 - Idea is entered into system and assigned
 - Lead member works with employee to implement Ideas
- Job Instructions (JI)
 - Idea implementation creates improvements which changes standard
 - JBS must now be created or modified to train employees
- Job Methods (JM)
 - Management assigns JM to find improvements

