

NAMA



Humane Handling: Best Practices


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NAMA Agenda



- Components of a Robust Systematic Approach
- Common Humane Handling Challenges and Solutions
- Open Discussion and Questions

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NAMA Agenda



- Components of a Robust Systematic Approach

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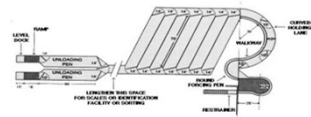
NAMA Written Program



Describes:

- Procedures implemented to stay in compliance
- Records kept to demonstrate that program is implemented as written
- Records to demonstrate the program will prevent potential non-compliances
- Actions the establishment will take when it fails to implement program as written or fails to prevent a non compliance

NAMA Initial Assessment



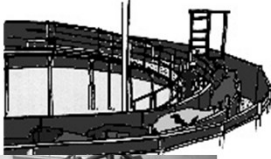

Include:

- Diagrams or blueprints of the animal handling systems
 - Receiving area
 - Holding pens and alleys
 - Crowd pen and lead up chute

NAMA Initial Assessment

Include:

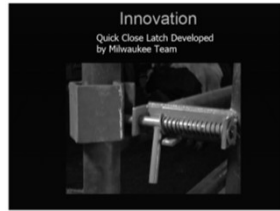
- Stunning area
- Restrainers
- Bleed rail

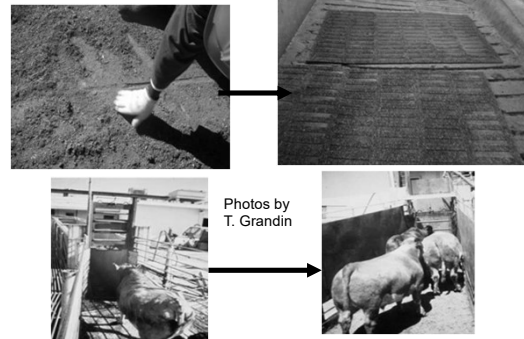
NAMA Initial Assessment

Can Include:

- Flowcharts (risk assessment)
- Written evaluations
- Minutes of team meetings
- Written Standard Operating Procedures (SOP's)



NAMA Photos Before / After



Photos by T. Grandin

Affect sheet

Cattle affect sheet

Cargill AMI Presentation

	Slips and Falls	Shaking & jolt	Truck discomfort	Ease of movement	Lighting	Reflections / Glare	Sunlight / Shadows	Machinery noise	Other noise	Air flow / smell	Insensibility issues
Outside areas											
Unloading area	x	x		x	x	x	x				
Cattle pens	x	x		x	x	x	x				
Of chutes	x	x		x	x	x	x				
Chute gate	x	x		x	x	x	x				
Lead up chute	x	x		x	x	x	x				
Chute area	x	x		x	x	x	x				
Chute	x	x		x	x	x	x				

Truck discomfort: Large potholes in the road, excessive bumps, Condition of floor, non-slip design, loose/missing wear.

Slips and falls: Sharp edges, damaged fencing, protrusions, narrow entrances, sharp turns, obstructions. Turn radius, obstructions.

Lighting: Not too bright. Directional lighting to illuminate ahead of cattle. No light directly at cattle. Illuminate above stn area.

Reflections/Glare: Show chutes, trapping materials, light color differences, people.

Sunlight/shadows: Look for bright/dark spots during different times of sunny days.

Machinery noise: Make sure, pneumatic venting, hydraulic fans, conveyor moving.

Other noise: Loud bangs, gate noises, outside distractions (construction etc.)

Air flow/smell: No air flow from rest/strainer area.

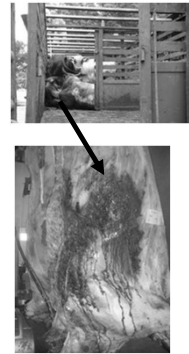
Insensibility: Straining equipment verification. Observe bleed rails.

AMI Handling guidelines 2005 Visual observations of cattle behaviour Equipment handbooks

NAMA Factors that Affect Animal Handling: Issues

Make a table to outline areas where the following humane handling issues can occur:

- Slips and falls
- Bruising and cuts
- Truck discomfort
- Ease of movement



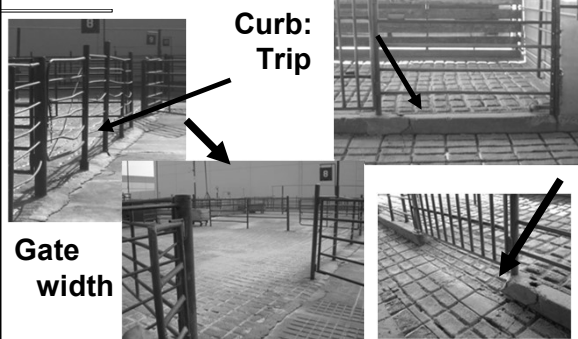
NAMA Factors that Affect Animal Handling: Causes

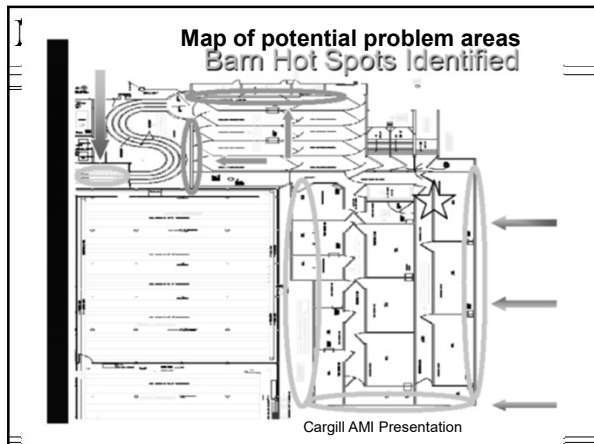
- Lighting
- Reflections
- Sunlight/shadows
- Machinery noise
- Other noise
- Air flow/smell
- Insensibility issues

Photos: T. Grandin



NAMA Factors that Affect Animal Handling: Causes





NAMA Facility Design and Handling Practices

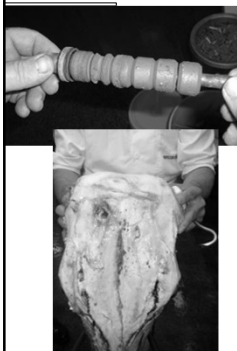


SOP's for live animal handling:

- Providing water and feed
- Providing ample pen space (stocking density)
- Special procedures for non-ambulatory, disabled or young animals (Be careful!!!!)



NAMA Facility Design and Handling Practices



SOP's for stunning:

- Stunner maintenance
 - Include backup stunner
- Procedures to assure stun operator competency
- Procedures for handling a sensible animal on the bleed rail

NAMA Facility Design and Handling Practices

SOP's for:

- Inspecting pens and equipment
- Cleaning of pens
- Employee Training
- Frequency of meetings, training and auditing
- Verifying and monitoring practices!!!!



NAMA Employee Training



Alchemy: Computer Training

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Training should include:

- Initial training for animal handlers and truckers, prior to working with animals.
- Interactive training methods

NAMA Employee Training

Training should include:

- Training materials (videos, slides, etc.)
- A quiz to measure understanding
- Visual review (verification) of practices to assure effectiveness




- Quarterly or annual retraining
- Certificates!!!!


NAMA Implementation and Ongoing Evaluation

Monitoring and documentation should include:

- Training documentation
- Work orders and records for corrective actions
- Maintenance records for stunners and other equipment used to handle animals
- A log book works well for small plants



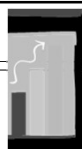
NAMA Implementation and Ongoing Evaluation



Monitoring can include:

- Internal audits of HH practices (follow AMI and industry formats, document frequency and components reviewed)
- Include facility inspection and transport reviews
- 3rd party or corporate HH audits


NAMA Implementation and Ongoing Evaluation



Monitoring can include:

- Video surveillance, including review of live feed or recordings
- Statistical Process Control (SPC) or trending to review measures and deficiencies (including NR's)
- Program Reassessment at least annually

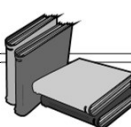
NAMA Pro-active Actions



Document actions to take and actually taken when issues occur:

- Emergency management plan for livestock: considering floods, tornados, power outages, fire or mechanical breakdowns, etc.


NAMA Pro-active Actions



Document actions to take and actually taken when issues occur:

- Corrective action documentation for deficiencies identified during daily activities and monitoring
- Guidance for employees when unanticipated incidents occur:
 - AW Corrective Action Report

NAMA Corrective Actions



Example of Program Corrective Actions for audit deficiency:

1. Notify supervisor and superintendent of the failure. Recheck in 30 minutes.
2. Notify supervisor and superintendent of the failure. Recheck in 30 minutes.
3. Notify supervisor and superintendent of the failure. A 10% line speed reduction until 2 consecutive rechecks at 30 minutes apart meet the process control standards.

NAMA Agenda



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NAMA Slipping and Falling



Short Term:

- Barn lime
- Sand
- Salt

Medium Term:

- Scrub Cement
- Acid Etch Cement
- Utilize Mats (ddfamilymats.net)



NAMA Slipping and Falling

Long Term:

- Score, roughen or stamp concrete
- Add rebar or cleats



NAMA Distractions and Balking

Noise:

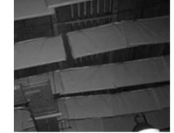
- Sound Baffles and Silencers

Light / Contrast:

- Spot Light
- Tarp

Visibility:

- Cardboard
- Curtains
- Walls



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Balking



Keep animals calm!!!

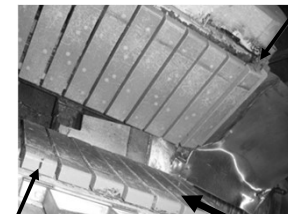
Reduce electrical prod use

Alternative:

- Vibrating Prod
- Air operated engraver with softened carbide tip

• <http://www.mcmaster.com/#1564t68/=3fhywv>


Restraint



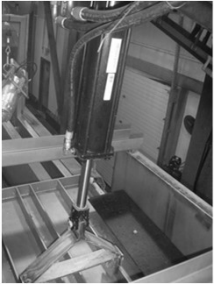
Restraint: Even movement both sides

Restraint: Larger animals require equipment





Restraint



▪ Adjustable hold down (entrance)

Restraint: Larger animals require equipment changes






Photo by T. Grandin




NAMA **Stunning**

You need a BIGGER stunner for BIG animals!



Cash Magnum with longer barrel and pin




B&D electric stunner wand extensions



More Info

AMI Website:
www.animalhandling.org
www.grandin.com
Auditing: Interpreting AMI Guidelines
www.VoogdConsulting.com


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When Something goes Wrong


An “anomaly” occurs:

- 1.Explain your “robust” systematic approach
- 2.Rapidly investigate the root cause
- 3.Determine additional steps and procedures to implement: Step up your game



4. Retrain employees
5. Measure results
6. Document!!


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Summary

Humane Handling

- 1.Use a systematic approach
- 2.Minimize animal excitement, injury
- 3.Facility design and maintenance are critical



4. Provide employee training
5. Measure results
6. Document!!

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THANKS!!!!!! NAMA






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