



**Motion Control Engineering**  
 Voice: 916 463 9200  
 Fax: 916 463 9201

## Motion 4000 Traction Engineering Survey Form

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Doc #: 42-FR-0450 B4 (JER130)  
 www.nidec-mce.com

### LOGISTICS INFORMATION

**MCE to complete shaded area:**

MCE Job Number:	Date Received:
Job Name:	Job Engineer:

**In order to better serve you and meet your schedule, this form must be completed and signed. Timely delivery and trouble-free installation begin with this data form. Accurate and complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.**

### Job Type

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Federal Government   | <input type="checkbox"/> DoD / UFGS<br>(TSSA Cert. Req'd) | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> School or University | <input type="checkbox"/> Office Building                  | <input type="checkbox"/> State Government |
| <input type="checkbox"/> Hospital             | <input type="checkbox"/> Other                            | <input type="checkbox"/> Courthouse       |
| <input type="checkbox"/> Jail / Prison        |   | <input type="checkbox"/> Private          |

### Site & Contact Information

<b>Site Address</b>
<b>Owner Representative</b>
Print Name:
Signature:
Title:
Business Phone:
Cell Phone:
eMail:
Address:

### Consultant Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Form Completed By

Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Contractor Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Shipping Information

<b>Ship to Address:</b>	
Notice Required:	<input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs
Lift Gate Truck Required:	<input type="checkbox"/> Yes <input type="checkbox"/> No



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### LOGISTICS & CODE DATA

### Logistics Information (continued)

#### Delivery & Payment Schedule

Standard MCE terms of payment (net 30 days) apply to your order. If you require special terms of payment, please provide an Alternative Payment Schedule.

Per state tax laws, it is critical that MCE receive exemption or resale certificates prior to the material being shipped and billed. If the job is a tax-exempt job, send the exemption certificate with this form. If you are a resale customer and have a resale certificate, please make sure that the MCE accounting department has a copy on file.

Customer Job Number:		
Customer PO Number:		
Job Name:		
Number of cars:		
<b>Control</b>	<b>Delivery Date</b>	<b>Payment Date</b>
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Group " "		

#### Delivery & Payment Schedule

If different payment terms are required, please provide an alternative proposal. Please include specifics of building owner payments and provide a copy of your contract.

Alternative Proposal Provided:  Yes  No  
 Contract Attached:  Yes  No

#### Job Push-Outs and Cancellation

Jobs pushed out by the customer more than 90 days beyond the originally scheduled date may be subject to cancellation charges as follows:

- \* Before engineering commences: 10% of total sales order
- \* After engineering completed: 30% of total sales order
- \* After construction completed: 75% of total sales order

#### Extra Documentation

If this job requires additional engineering drawing packages or additional manuals, please indicate below.

<input type="checkbox"/> Drawing Sets	# Required:
<input type="checkbox"/> Manuals	# Required:

### Elevator Safety Code Compliance

Accurate information is essential. Both hardware and software are affected.

<b>Job Location (City/State):</b>	
<b>Contract Date:</b>	
<b>Project Type:</b>	<input type="checkbox"/> New Construction <input type="checkbox"/> Modernization
<b>Elevator Duty:</b>	<input type="checkbox"/> Passenger <input type="checkbox"/> Service <input type="checkbox"/> Freight
<b>Measurements:</b>	<input type="checkbox"/> U.S./Imperial <input type="checkbox"/> S.I./Metric
<b>North American Compliance:</b> <input type="checkbox"/> U.S. <input type="checkbox"/> Canada	
<b>ASME A17.1/B44 Edition:</b> <input type="checkbox"/> 2019	
<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000	
<b>Addenda/Supplements:</b> <input type="checkbox"/> 2008(a) <input type="checkbox"/> 2005(a) <input type="checkbox"/> 2002(a)	
(None for A17.1-2010 and later) <input type="checkbox"/> 2009(b) <input type="checkbox"/> 2005(S) <input type="checkbox"/> 2003(b)	
<input type="checkbox"/> ASME A17.1-1996/98	
<input type="checkbox"/> ASME A17.1- (Specify edition & addenda)	
<b>International compliance:</b>	
<input type="checkbox"/> Australia AS 1735	
<input type="checkbox"/> EN 81	
<input type="checkbox"/> Other (Specify):	
<b>Additional jurisdictional code compliance:</b>	
<input type="checkbox"/> California medical facility OSHPD Seismic Certification (additional charge for certified cabinet)	
<input type="checkbox"/> Chicago Chapter 18-30	
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway	
<input type="checkbox"/> GSA	
<input type="checkbox"/> Hawaii	
<input type="checkbox"/> Houston, TX <input type="checkbox"/> Existing Door Reopen Button, Fire Phase I	
<input type="checkbox"/> Maryland	
<input type="checkbox"/> Michigan <input type="checkbox"/> Permit/contract date prior to 6/21/2010?	
<input type="checkbox"/> Nebraska	
<input type="checkbox"/> New York City, NY <input type="checkbox"/> Appendix K <input type="checkbox"/> RS-18	
<input type="checkbox"/> Seattle, Washington	<input type="checkbox"/> Multiple Phase I Switches
<input type="checkbox"/> Washington State	# of 3-position: _____ # of 2-position: _____
<input type="checkbox"/> TSSA <input type="checkbox"/> Collapsible Car Top Guard Rail	
<input type="checkbox"/> UFGS Specs Specify Branch:	
<input type="checkbox"/> Additional Compliance Requirements? Explain:	
<b>Job Specification</b>	
Does project have job specifications? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, number of pages: _____	
Have specifications been forwarded to MCE? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Type of Operation**

**Simplex**

Parking Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 If no parking floor, car stays at last call answered.

**Selective collective**  
 (intermediate floors have two call buttons in hall)

**SAPB Single Automatic Pushbutton**  
 (intermediate floors have one call button in hall)

**SBC Single Button Collective**  
 (intermediate floors have one call button in hall)

**Duplex Selective Collective**  
 (provide hoistway and machine room drawings)

Parking:  
 Primary Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Secondary Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 First free car will park at **Primary** floor.  
 Second free car will park at **Secondary** floor.  
 If no parking floors, cars stay at last call answered floor.

**Group Automatic** (provide hoistway and machine room drawings)

Number of cars: \_\_\_\_\_ Number of Hall Call Risers: \_\_\_\_\_  
 Lobby Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Parking Floors:  
 Number of cars to park: \_\_\_\_\_  
 Floors to park at: \_\_\_\_\_  
 (If no parking floor, cars stay at last call answered)  
 (Once parking floors are full, other cars stay at last call answered)

**Swing Car Operation** Car(s): \_\_\_\_\_  
 Activated by keyswitch:  In car  In hall  
 Auto swing

**Cross Registration**  
 Existing hall P/B schematics are required.

**Fire Service Operation**

**Fire Service Phase I**

Main Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Doors will open:  Front  Rear  
 Phase 1 Switch is:  2-position  3-position  
 Alternate Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Doors will open:  Front  Rear

**NOTE:** For **flood hazard zones**, the designated and alternate fire recall floors should be at or above the base flood elevation.

Additional 2-position switch:  Yes  No

For Federal jobs, location of additional 2-position switch:  
 Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Hoistway sensors:  At or below lower level of recall  
 Above lower level of recall

"Elevator Control Panel" (Chicago High Rise only)

**Fire Service Phase II**  
 Fire Service Access Elevator(s)? \_\_\_\_\_ (list)

Type of switch:  3-position  2-position  
 Call Cancel Button:  Yes  No

**Additional Fire Operation Requirements for Detroit MI, or  
 GSA/Federal Jurisdictions:**  
 Shunt Trip Delay  
 Heat Detectors: (  MR  HW  Each floor )

**Operating Features**

**Attendant Service**  Yes  No  
 Attendant Annunciator Panel in car (Visual hall calls)

**Car-to-Lobby switch**  Yes  No  
 Location:  Car  Hall  Remote Panel  
 Park with doors:  Open  Closed  
 Return Landing#: \_\_\_\_\_ Floor Label: \_\_\_\_\_

**Earthquake Service:**  Yes  No

Code Compliance:  ASME  California (Group II)  
 Machine Type:  Traction  Winding Drum

Seismic switch  By MCE  By Customer  
 C/W derailment device  By MCE  By Customer  
 Earthquake light/buzzer  Car to operate on fire or hospital service  
 Earthquake hoistway scan switch in COP? (optional for 2016 and later)  
**NOTE: A manually reset switch that is positively opened mechanically must be provided at the machine to detect the displacement of the suspension members or the suspension members' retainer.**

**Emergency Medical Technician Service (EMT)**  Yes  No  
 Return landing #: \_\_\_\_\_ Floor label: \_\_\_\_\_

**Emergency Power Generator**  Yes  No  
 Does generator power other cars?  Yes  No  
 If yes:  Sequential lowering? (requires emergency power overlay)

If not sequential:  
 Number of cars to run at a time:  1  2  3  : \_\_\_\_\_

Emer pwr contacts during normal pwr:  Open  Closed  
 Power pre-transfer contact – 10 sec minimum

**Manual Select Switch**  
 Number of positions: \_\_\_\_\_ Labels: \_\_\_\_\_  
 Is emergency/standby power selector switch located at the designated level in view of all elevator entrances?  
 Yes  No

**Flood Operation**  Yes  No  
 Lowest landing that the car can go in an event of a flood:  
 Landing: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
**NOTE:** The designated and alternate fire recall floors should be at or above this level.

**Foldable/Collapsible Cartop Rail Required:**  Yes  No

**Hospital Service (Code Blue)**  Yes  No  
 Mark number of each car used for hospital service:  
 1  2  3  4  5  6

Landing numbers served: \_\_\_\_\_

Number of hospital risers: 1  2  3  4   
 If more than one, list cars assigned to each:  
 #1: \_\_\_\_\_ #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

Hospital Phase 2 Activation:  
 Hospital Phase 2 switch  Hospital service indicators  
 Standard operation: Phase 1 – light flashes; Phase 2 – lights continuous

**Independent Service**  Yes  No  
 Key switch location:  Car (standard)  Hall  
 Pre-test switch in Controller

**Operating Features (continued)**

<b>Inspection/Access Requirements</b>	
<b>Car Top Inspection Station</b> by MCE (NEMA 1 only) <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Extended Shaft Car Top Inspection</b> <input type="checkbox"/> Yes <input type="checkbox"/> No (Bypasses 1 <sup>st</sup> set of directional & final limits to move the car further up the hoistway during car top inspection; 2 <sup>nd</sup> set of directional & final limits required, along with a separate multi-pole switch on car top complying with A17.1, 2.26.4.3; both sets of directional limits must be physical switches.)	
<b>Hoistway Access Operation</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
Top access switch:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Switch location:	<input type="checkbox"/> Front <input type="checkbox"/> Rear
Bottom access switch:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Switch location:	<input type="checkbox"/> Front <input type="checkbox"/> Rear
Select In-car Access (enable) switch type below.	
<b>In-Car Inspection Operation</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
Using separate up/down buttons	<input type="checkbox"/> Yes <input type="checkbox"/> No
Select In-car Inspection (on/off) switch type below.	
<b>In-Car Inspection and/or Access Switch type</b> (Only for ASME A17.1-2000/CSA B44-00 or later)	
<input type="checkbox"/> 2-Position Inspection (on/off) switch	
<input type="checkbox"/> 2-Position Access (enable) switch	
<input type="checkbox"/> 3-Position Inspection (on/off) and Access (enable) switch	

**Load Weighing**  Yes  No

<b>EMCO Load Weigher</b>	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
If additional cars use same roping, and more load weighers are needed, indicate quantity here: _____	
If car roping varies, provide information for each car below.	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
<input type="checkbox"/> K-Tech strain gauge (from MCE)	
<input type="checkbox"/> K-Tech strain gauge (from other) Model: _____	
<input type="checkbox"/> Other weigher Brand: _____ Model: _____	
<input type="checkbox"/> Discrete weigher (dry contact interface)	
<input type="checkbox"/> Anti-nuisance	<input type="checkbox"/> Lobby dispatch
<input type="checkbox"/> Hall call bypass	<input type="checkbox"/> Overload
<input type="checkbox"/> Hoist	

**Monitoring**  Yes  No

<input type="checkbox"/> mView complete in machine room
<input type="checkbox"/> mView interface only to allow future connection
<input type="checkbox"/> iMonitor / iReport, machine room or remote
<input type="checkbox"/> iMonitor / iReport interface only allow for future connection
<input type="checkbox"/> IDS Liftnet Interface
Number of monitoring stations: _____
Distance from group to monitoring station: _____ ft
Is distance greater than 300ft? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Sabbath operation</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Security</b>
<b>Car Call Security</b>
<input type="checkbox"/> Card reader lockouts (dry contacts)
<input type="checkbox"/> Car call card reader override switch
Switch Location: _____
<input type="checkbox"/> Keyed floor lockout switches
Switch location: <input type="checkbox"/> Car <input type="checkbox"/> Hall:
Number of switches: _____
<input type="checkbox"/> Floor Lockouts via PC (iMonitor)
<input type="checkbox"/> Basic security (enter security code using car call buttons)
Enable/disable via: <input type="checkbox"/> Key-switch on/off   Location: _____
<input type="checkbox"/> 7-Day Timer (hardware)
<b>Hall Call Security</b>
<input type="checkbox"/> Card reader lockouts (dry contacts)
<input type="checkbox"/> Hall call card reader override switch
<input type="checkbox"/> Single switch overrides all car and hall card readers.
Location: _____
<input type="checkbox"/> Keyed floor lockout switches)
<input type="checkbox"/> Floor Lockouts via PC (iMonitor)
<input type="checkbox"/> <b>Bypass Security:</b> (Fire service bypass is standard)
<input type="checkbox"/> Independent Service <input type="checkbox"/> Attendant Service
<input type="checkbox"/> Other Specify: _____
<b>Sound Reduction</b> (additional cost) <input type="checkbox"/> Yes <input type="checkbox"/> No (for dynamic braking resistors)
<b>Special Security Features:</b>
<input type="checkbox"/> Jail Security *
<input type="checkbox"/> Deputy/Marshal Service*
<input type="checkbox"/> Remote Car Station Control
<input type="checkbox"/> Evacuation Service *
<input type="checkbox"/> Child / Infant Abduction / Bracelet Operation
Number of landings with detection device: _____
Which Landings:
Landing #: _____ Floor label: _____
Allow car to run if not at affected landing: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other * (_____)
* additional details must be provided
<b>Timed Fan Light Output:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
Used to turn cab fan/lights off after a user-adjustable length of time if the car is at a floor on automatic operation with the doors closed and no demand.



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## MOTOR, MACHINE & BRAKE

### General Information

<b>Voltage</b>	
Line voltage available (disconnect): _____	
Line voltage measured: _____	
<input type="checkbox"/> AC 3 phase (symmetrical with respect to ground) <input type="checkbox"/> AC 3 phase (grounded leg delta configuration) <input type="checkbox"/> AC 2 phase <input type="checkbox"/> AC single phase <input type="checkbox"/> DC <input type="checkbox"/> 60 Hz <input type="checkbox"/> 50 Hz	
Add Isolation Transformer:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Add Voltage Surge Suppressor:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Add Brown Out Circuit:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Add Traction Auxiliary Power Supply(Backup power for controller, only up to 40hp)	<input type="checkbox"/> Yes <input type="checkbox"/> No
The maximum controller SCCR (Short Circuit Current Rating) is 10kA. If available fault current exceeds 10kA, an isolation transformer will be required. Please notify MCE.	
<input type="checkbox"/> Machine blower	
Voltage: _____ Phase: _____ FLA: _____	
<input type="checkbox"/> Reduced stroke buffers   Buffer rating: _____ fpm	
Buffer stroke: _____ inches	
<input type="checkbox"/> Counterweight safety	
Regenerative Drive: <input type="checkbox"/> Yes <input type="checkbox"/> No (returns overhauling power to main line)	
<input type="checkbox"/> Suspension-Means Monitoring (req'd for A17.1-2010 and later) <input type="checkbox"/> Steel wire ropes ≥ 8mm (Standard) <input type="checkbox"/> Steel wire ropes < 8mm * <input type="checkbox"/> Suspension means other than steel wire ropes * * For non-standard suspension means, the customer must provide the Broken Suspension Member (2.20.8.2) or Suspension Member Residual Strength (2.20.8.3) monitoring means, including a normally closed contact.	

### Machine and Brake

Machine <input type="checkbox"/> Existing <input type="checkbox"/> New (by others)	
<input type="checkbox"/> New (by MCE – complete additional form)	
<input type="checkbox"/> MRL (machine roomless)	
Brand: _____	
<input type="checkbox"/> Geared	
<input type="checkbox"/> Ring & Worm <input type="checkbox"/> Helical <input type="checkbox"/> External <input type="checkbox"/> Tandem	
<input type="checkbox"/> Gearless <input type="checkbox"/> AC PM <input type="checkbox"/> AC Induction	
Encoder model: _____	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Brake <input type="checkbox"/> Existing <input type="checkbox"/> New   Brand: _____	
<input type="checkbox"/> DC Brake (* Required Information)	
Voltage:   *Pick: _____   *Hold: _____	
*Coil resistance: _____ <input type="checkbox"/> Measured <input type="checkbox"/> Data Sheet	
<input type="checkbox"/> Contact on brake   Type: <input type="checkbox"/> N/O <input type="checkbox"/> N/C	
<input type="checkbox"/> AC Brake (* Required Information)	
*Current/Fuse Size: _____   Voltage: _____	
Phase: <input type="checkbox"/> Single <input type="checkbox"/> 3-phase	
<b>FOR MRL APPLICATIONS ONLY:</b>	
<input type="checkbox"/> Battery Backup Passenger Rescue w/Video	

### Governor

<input type="checkbox"/> Jawless Governor (tension sheave switch required)
<input type="checkbox"/> OSHPD (tail sheave dislodged switch required)
<input type="checkbox"/> Remote Governor Set/Reset   Coil Voltage: _____ <input type="checkbox"/> AC <input type="checkbox"/> DC

### Emergency Brake

ASME A17.1-2000/CSA B44-00 or later requires the addition of an emergency brake on all new traction elevators, per 2.19. Also note that some alterations may trigger the requirement to add an emergency brake as well, depending on the Code edition (i.e., change in type of service, operation or motion control; increase in rated load or speed; and replacing the driving machine or replacing the motion controller).	
<input type="checkbox"/> Secondary/Independent Brake on machine	
<input type="checkbox"/> Identical to Main Brake	
<input type="checkbox"/> Other - Pick: _____ Hold: _____ Coil Resistance: _____	
<input type="checkbox"/> Hollister Whitney Rope Gripper (120VAC)	<input type="checkbox"/> Hilliard Brake
<input type="checkbox"/> Hydraulic <input type="checkbox"/> Linear	<input type="checkbox"/> Rotary (110VDC)
<input type="checkbox"/> Bode Rope Brake	<input type="checkbox"/> MK Brake (# of Coils _____)
<input type="checkbox"/> 120VAC <input type="checkbox"/> Other: _____	<input type="checkbox"/> 100VDC <input type="checkbox"/> 210VDC
<input type="checkbox"/> Torin Sheave	<input type="checkbox"/> Thyssen Sheave Brake (125VDC)
<input type="checkbox"/> Brake (110VDC) <input type="checkbox"/> Clamp (220VAC)	<input type="checkbox"/> Other: Make/Model _____
<input type="checkbox"/> Draka Sure Stop (220VAC)	Voltage: _____ FLA: _____

### Hoist Motor

<b>Variable Frequency AC</b>	
<input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> New by MCE (fill additional form)	
Brand: _____ HP: _____ Volts: _____	
FLA: _____ FL RPM: _____ # Poles: _____	
Sync RPM: _____ Frequency: _____	
For 2-speed motor, measure high speed winding.	
Encoder cable length: _____	
Other name plate data: _____	
<b>Variable Voltage DC</b>	
<input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> New by MCE	
Brand: _____ Volts: _____	
HP: _____ RPM: _____ FLA: _____	
Other name plate data: _____	
Shunt field voltage:	
Forcing: _____ Full Speed: _____ Standing: _____	
Shunt field resistance:	
<input type="checkbox"/> Measured <input type="checkbox"/> Data Sheet   # of coils: _____	
<input type="checkbox"/> Series <input type="checkbox"/> Series/Parallel	
<input type="checkbox"/> Hot <input type="checkbox"/> Cold	
Loop Circuit Voltage while running (measure on motor brushes):	
Up empty car: _____ VDC at speed: _____	
Down empty car: _____ VDC at speed: _____	
Loop Circuit Current while running:	
Up empty car: _____ Amps at speed: _____	
Down empty car: _____ Amps at speed: _____	
<b>Velocity feedback</b>	
<input type="checkbox"/> By MCE <input type="checkbox"/> By others	
<input type="checkbox"/> Tachometer <input type="checkbox"/> Encoder	
<input type="checkbox"/> Flange <input type="checkbox"/> Foot   Encoder cable length: _____ (ft)	
<b>If gearless:</b> Drive sheave diameter: _____	
Diameter of surface to run tach: _____	

**Door Information**

**Car Gate**

- Automatic passenger style doors
- Powered freight style doors
- Manual doors
- Other: \_\_\_\_\_

Gate Release Solenoid (not standard)  Yes  No

Voltage: \_\_\_\_\_  3-Phase AC  1-Phase AC  DC  
 Fuse:  2A  3A  Other: \_\_\_\_\_

**Hoistway Doors**

- Automatic passenger style doors
- Powered freight style doors
- Manual doors (complete below)
- Other: \_\_\_\_\_ (complete below)

Interlocks:

- Door Closed contact  Yes  No
- Door Locked contact  Yes  No
- Brand: \_\_\_\_\_ Model: \_\_\_\_\_

Door locking cam

- Retiring (not driven by automatic passenger style car gate)  
 Voltage: \_\_\_\_\_  3-Ph AC  1-Ph AC  DC  
 Fuse:  2A  3A  Other: \_\_\_\_\_
- Fixed cam
- Bar lock (manually operated)
- Mechanical  
 (driven by automatic passenger style car gate)

**Door Features**

- Infrared detector unit/photo eye
  - Cut-out switch in COP
  - Anti-Nuisance

Mechanical safety edge

Heavy doors at landings (list landings): \_\_\_\_\_

Dual door operators on same side for wide opening

Cartop door open/close buttons  
 (nonsolid state door operators)

Door Hold Operation (non-fire operation)  
 Switch  Button (max hold = 120 seconds)

- Nudging
  - Reduced torque with buzzer
  - Buzzer only
  - Ignore photo eye after \_\_\_\_\_ seconds

If safety edge or door open button activated, doors should:

Stop  Re-open  Other: \_\_\_\_\_

**Sketch or Special Instructions**

**Automatic Passenger Style Doors**

**MCE**

- SmarTraq Complete (Complete SmarTraq data forms)
- SmarTraq Upgrade  
 (Upgrades existing operator to closed loop. Mark existing model below.)
- Profile Door Operator (Complete Profile data forms)

**GAL**

- MOVFR I  
 Voltage:  220VAC  110VAC  
 (220 is default if no selection made)
- MOVFR II
- MOMVC/MOHVC  MOM/MOH
- MOD (230V)  MOSVCL
- MOD (115V)  MOPM-P/MOPM-PL
- MODHA  MOCT/MOCTA/MODCT/  
 MOMCT/MOHCT
- MODVC/MODHVC Motor Voltage:  220  110
- MOA Logic Voltage:  220  110

**MAC/Kone**

- PM-SSC/104 Board  MAC (old style)
- AMD/Kone

**TKE/Dover**

- HD03M  HDLM
- HD68/70/73/91
- HD98/85 (Requires SmarTraq upgrade kit)

**Otis**

- 6970A – Resistance  6970A – Reactance
- 7300  A7770A
- 7782AA  OVL
- iMotion 1 & 2  AT400

**ECI**

- 895/1000  VFE2500
- 2000 Voltage:  220VAC  115VAC  
 (220 is default if no selection made)

**Other**

- IPC Encore (closed loop)  Mitsubishi LV1/4K
- Delco (closed loop)  Schindler QKS 14 & 15
- Atlantic/Vertisys Model:
- Other (wiring diagram required):

**Powered Freight Style Doors**

**Door Controller Model**

- Peelle  New  Existing  
 Model: \_\_\_\_\_ (electrical schematic required)
- Courion  New  Existing  
 Model: \_\_\_\_\_ (electrical schematic required)
- EMS  New  Existing  
 Model: \_\_\_\_\_ (electrical schematic required)
- Other  New  Existing  
 Model: \_\_\_\_\_ (electrical schematic required)

**Door Operation (freight only)**

- Opening:  Automatic  Momentary pressure
- Closing:  Automatic  Momentary pressure  
 Constant pressure
- Fire Ph. I Closing:  Automatic  Momentary pressure  
 Constant pressure

**Call Registration Indicators**

All push buttons designed as standard mechanical style unless noted on special instructions

**Car Calls:** Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  DC  
Type:  LED  Neon  Incandescent

**Hall Calls:** Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  DC  
Type:  LED  Neon  Incandescent

**Auxiliary Car Station:**  Yes  No  
Total # of car stations in each car:  1  2  3  4

**Serial Link** (Fixtures must be 24VDC, 6 watts max)

Car Operating Panel  Hall Calls  
Call pushbuttons must be mechanical.

Serial fixture boards to be sent to fixture manufacturer / contractor for pre-wire?  Yes (If so, indicate where below)  No  
Ship serial boards to:

- C.E. Electronics  EPCO  Dupar
- Innovation Industries  Monitor  MAD
- ERM  PTL
- Elevator Contractor Office

Please indicate Contact Person/ Number in Special Notes below  
Which boards to be sent?  COP  Hall Station

**Position Indicators**

Car  
 MCE CE 3-wire driver board (built into controller)  
 MCE E-Motive 3-wire driver board (built into controller)  
 MAD OR  Other [Customer-supplied Serial Device] (discrete signals from MCE only – fill in \*Discrete section below)  
 \*Discrete signals (Multi-Light, serial, or non-serial digital)  
\*Provide information below:  
Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  +DC  -DC  
Type:  Multi-light  
 To customer-supplied external serial driver board  
Brand: \_\_\_\_\_ Model: \_\_\_\_\_ Driver Location(s): \_\_\_\_\_  
 One line per floor  
 Binary code begins at landing 1  
 00  01

Hall  
Location:  All floors  Main fire return  Other: \_\_\_\_\_  
 MCE CE 3-wire driver board (built into controller)  
 MCE E-Motive 3-wire driver board (built into controller)  
 MAD OR  Other [Customer-supplied Serial Device] (discrete signals from MCE only – fill in \*Discrete section below)  
 \*Discrete signals (Multi-Light serial, or non-serial digital)  
\*Provide information below:  
Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  +DC  -DC  
Type:  Multi-light  
 To customer-supplied external serial driver board  
Brand: \_\_\_\_\_ Model: \_\_\_\_\_ Driver Location(s): \_\_\_\_\_  
 One line per floor  
 Binary code begins at landing 1  
 00  01

Voice annunciation (ADA required over 200 FPM)  
 MCE CE 3-wire driver board interface (built into controller)  
 By other, discrete signals requested (i.e., fire service): \_\_\_\_\_  
 Custom messages nonstandard please indicate below

**Lanterns**

Car lanterns  
 MCE CE 3-wire driver board (built into controller)  
 MCE E-Motive 3-wire driver board (built into controller)  
 Discrete signals – Bulb wattage \_\_\_\_\_  
Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  DC  
Type:  Chime  Gong

Hall Lanterns  
 MCE CE 3-wire driver board (built into controller)  
 MCE E-Motive 3-wire driver board (built into controller)  
 Discrete signals – Bulb wattage \_\_\_\_\_  
Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  DC  
Type:  Chime  Gong

Passing floor signal  
 MCE CE 3-wire driver board (built into controller)  
 MCE E-Motive 3-wire driver board (built into controller)  
 Discrete signals  
Voltage:  24  48  120  Other: \_\_\_\_\_  
 AC  DC  
Type:  Chime  Gong  
 Passing floor enable ("s" button)

**Status Indicators**

Type	Volts	AC	DC
Attendant Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Attendant Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake Indicator/buzzer (pre-2016)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>Earthquake Indicators (2016 or later editions)</b>			
<input type="checkbox"/> EQ Slow Speed Indicator (COP) (Required for hoistway scan operation)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> EQ Mode Indicator (COP)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Seismic Status Indicator (Adjacent to each inspection station)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inside controller	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Adjacent to cartop inspection station	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Adjacent to in-car inspection switch	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other inspection stations (list) _____	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Annunciator panel display	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Call Registration Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Closing Buzzer (typically freight only)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Hold Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Left Open Bell	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Power Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
EMT Service Light, Car	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
EMT Service Light, Hall	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Fire Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Fire Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> MCE CE 3-wire driver board (built into controller)	<input type="checkbox"/>	<input type="checkbox"/>
Hospital Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Hospital Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
In-Service Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
In-Use Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Load Status Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Nudging Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> MCE CE 3-wire driver board (built into controller)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>



**Motion Control Engineering**  
 Voice: 916 463 9200  
 Fax: 916 463 9201

# Motion 4000 Traction Engineering Survey Form

Doc #: 42-FR-0450 B4 (JER130)  
 www.nidec-mce.com

## LANDINGS & OPENINGS

### Landings & Openings

Ldg #	Floor Label	Floor Height	Car		Car		Car		Car		Car		Car	
			F	R	F	R	F	R	F	R	F	R	F	R
	O.H.													
32			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PIT													
Capacity: <input type="checkbox"/> kg <input type="checkbox"/> lbs														
Up Speed: <input type="checkbox"/> ms <input type="checkbox"/> fpm														
Down Speed: _____														
Total Travel: <input type="checkbox"/> m <input type="checkbox"/> ft														

**Number of hoistways:** \_\_\_\_\_

**Hoistway NEMA Rating:**  
 1 (standard)  12  4  4 X  
 Other: \_\_\_\_\_

**Landing System:**  
 **ELGO** (standard) Tape length: \_\_\_\_\_  
 **LS-EDGE**

**Tape type:**  Steel (STD)  Stainless Steel

**LS-RAIL** (compact, tapeless)  
 Note: Not recommended for slide guides due to wheel slip.  
 Note 2: Verify vertical overhead clearance of 10" above LS-RAIL mounting shelf. Verify horizontal clearance when car sheave exists on car top.

MCE Mounting Pedestal (attaches to crosshead beams, extends over rollers) Pedestal total height 20.5" Landing system mounting shelf height adjustable, 11" to 20.5" above pedestal base.

---

**Sprinkler Installations**  
 In machine room  
 In hoistway  
 In pit at 24" or less (NEMA 4 required below 48")

**EECO limit switches by MCE for Final limits only**

**TM Switch** (music box)

**Handheld Unit – mPAC**  
 (Recommended but not required)

**MCE Traveling cable**  
 If yes, please fill out cable data form

---

**Machine room space limitations?**  
 Indicate enclosure space available. Otherwise, enclosure size based on job requirements. (Check entry hall and door sizes.)  
 \_\_\_\_\_ H x \_\_\_\_\_ W x \_\_\_\_\_ D

**Machine room location:**  Overhead  
 Basement  Other

**Number of machine rooms:** \_\_\_\_\_

**Machine room NEMA rating:**  1 (std)  
 12  4  4X

Air-conditioned enclosure (recommended for all but NEMA 1)  
 GFCI outlet required in enclosure (added charge)  
 Light required in enclosure (added charge)

**NOTE:** Floor Label note: If using CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (##)



**NOTE:** Hoistway Layout Forms are required for each unique landing configuration including riser, opening, and wall/barrier location. These forms must be filled out by hand and faxed to MCE. Enter the number of drawings you are submitting here: \_\_\_\_\_

The diagram illustrates a six-car group hoistway layout. It shows six cars (CAR A through CAR F) arranged in two rows. CAR A, B, and C are in the top row, while CAR D, E, and F are in the bottom row. Each car is represented by a vertical rectangle with a circled letter (R for Rear Opening, F for Front Opening) indicating the location of the door. Riser locations are indicated by boxed letters (G for Group Riser, H for Hospital Service Riser, I for Inconspicuous Riser). Barriers/walls are shown as strings of 'x' marks. Bold lines indicate no opening. Annotations include: 'Show door opening as a circled letter', 'Show barriers/walls as a string of "x" marks', 'Indicate no opening with a bold line', 'Identify each car', and 'Show function and number of risers as boxed letters'. The text 'EXAMPLE: SIX CAR GROUP' is at the bottom left.

**Riser Designators**

[G] = Group Riser  
 [I] = Inconspicuous Riser  
 [H] = Hospital Service Riser

Other risers (explain): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Door Designators**

(F) = Front Opening  
 (R) = Rear Opening

Special instructions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sketch your layout in the grid area. Alternately, use separate sheets of paper (with your job number)

