

RICHARDSON *Database for Sage*

THE RICHARDSON NAME THAT YOU HAVE TRUSTED FOR YOUR
COST DATA NEEDS FOR OVER 60 YEARS
WE HAVE A NEWLY UPDATED REVISED PRODUCT FOR 2020!!!

Data For Construction Estimating

A comprehensive database of construction material and labor pricing for the US, Canada and International Markets.

Get started now



PLEASE CONTACT US FOR A WEBEX – ‘WALK THROUGH’ OF THE NEWLY RELEASED RICHARDSON PROCESS PLANT CONSTRUCTION ESTIMATING LINE ITEM DATABASE DESIGNED FOR PROCESS MINDED ESTIMATORS AND ENGINEERS

Our Comprehensive database is required for accurate computerized estimating. Obtaining and maintaining a reliable database of material and equipment costs, labor productivity and subcontractor pricing is every Estimators ongoing challenge.

We at Cost Data On Line, Inc is accepts this challenge – and meets it – offering again

Richardson’s Process Plant Construction Estimating Database - 193,000 Approx Line items

With your 365 day subscription to our Richardson’s Process Plant Construction Estimating Database you receive the following Data

Benefits:

- Save time – Estimate immediately without creating a database
- Improve Accuracy – Complete backup provided for all line items
- Increase Confidence – Richardson Data used worldwide for over 60 years
- Regular Updates – Material Prices and man-hours updated annually

Database Licensee Information, contact Eos Group at info@eosgroup.com or call 602.429.0200

Here is a complete list of the data that is contained in our Database:

Account Sections Included:

GENERAL NOTES AND INSTRUCTIONS

Square Foot and Parametric Estimating
Cranes and Hoisting Equipment
Rental Equipment
Scaffolding and Shoring
Testing and Quality Assurance

SITWORK

Clearing and Grubbing
Topsoil Stripping, Stock Piling and Replacing
Site Grading, Filling and Compacting
Site Grading
Site Grading, Filling and Compacting
Elevated Fills for Buildings
Dewatering and Shoring
Structural Excavation - Case 580 Loader-Backhoe
Structural Excavation and Backfill by Hand
Structural Excavation - Cat 225 Backhoe
Structural Excavation - Cat 235 Backhoe
Structural Excavation - Cleveland 7036 Trencher
Structural Excavation Using Cat Wheel Loaders
Structural Excavation - Rock
Loading Loose Materials - Cat Wheel Loaders
Structural Backfill and Compaction
Trench Excavation - Case 30+4 Trencher
Dump Truck Hauling and Dump Charges
Slope Protection and Brow Ditches Using Air Blown Mortar
Wood Piling
Steel "H" Piling
Precast Concrete Piling
Drilled Foundations
Polyvinyl Chloride Gravity Sewer Pipe
Cast Iron Soil Pipe
Concrete Drainage Pipe
Corrugated Metal Pipe
Vitrified Clay Pipe
Concrete Drainage Structures
Polyvinyl Chloride Pressure Pipe
High Density Polyethylene Pressure Pipe (HDPE)
Ductile Iron Pressure Pipe
A.W.W.A. Waterworks Valves and Hydrants
Flexible Transition Couplings
Cement Mortar Lining of Pipelines in Place
Asphalt Concrete Paving and Base Materials
Portland Cement Concrete Paving
Curbs, Curbs and Gutters, and Cross Gutters
Portland Cement Concrete Walks, Steps and Pads
Chain Link Fencing
Landscaping Insulating Fills on Floor and Roof Decks
Concrete Stairways
Railroad Sidings
Flagpoles, Pipe Bumpers and Metal Guard Railing
Dike Construction
Gabions and Reno Mattresses
High Density Polyethylene (HDPE) Liners
Demolition and Removals

CONCRETE

Continuous Wall Footings and Grade Beams

Continuous Footings with Integral Stem Walls
Square Footings
Slabs on Grade
Structural Mats on Grade
Round Columns and Piers Using Regular Sonoco Sonotubes
Round Columns and Piers Using Light Sonoco Sonotubes
Square Columns and Piers
Concrete Walls - Gang Formed
Curved Concrete Walls - Gang Formed
Concrete Walls - Single Waler System
Curved Concrete Walls - Single Waler System
Tilt-Up Concrete Walls
Ganged Formed Concrete Walls
One and Two Way Solid Slabs and Beams
One Way Pan-Joists
Two Way Pan-Joists Waffle Slabs
Flat Plates and Flat Slabs
One and Two Way Solid Slabs and Beams
One Way Pan-Joist
Two Way Pan-Joist Waffle Slabs
Flat Plates and Flat Slabs
Domed Concrete Tank Covers
Concrete Fills on Floor and Roof Decks
Post-Tensioned Prestressed Concrete
Plant Produced Pretensioned
Prestressed Concrete
Pile Caps and Tie Beams
Grouting Structural Steel Column Base Plates
Process Equipment Foundations
Miscellaneous Concrete Items
Concrete Embossing

MASONRY

Concrete Block Masonry
Lightweight Concrete Block
Screen Blocks
Surface Bonded Concrete Blocks
Accessory Materials
Split Face Concrete Blocks
Fluted Concrete Blocks
Slump Concrete Blocks
Glazed Concrete Blocks
"Through The Wall" Hollow Clay Units
Glass Block Partitions
Brick Masonry Units
Accessory Materials
Concrete Block Masonry - IMSI® Insulated Block Wall
Natural Stone Masonry
Split Ashlar
Round Rubble
Indiana Limestone
Marble and Granite
Acid Brick Tile Floors
Brick floors And Stairways
Hollow Unit Masonry Walls
Solid Unit Masonry Walls
Veneer and Composite Brick-Block Walls –
Miscellaneous Masonry Items

STEEL AND METAL

Round and Square Structural Steel Tube Columns
 Ledger Angles
 Structural Steel, Buildings and Structures
 Open Web Steel Joists
 Steel Trusses
 Tapered Steel Girders
 Steel Floor and Roof Decks
 Miscellaneous Metals for Buildings
 Miscellaneous Steel Items
 Gratings and Stair Treads\
 Process Plant Platforms, Ladders and Handrails
 Pipe Supports and Pipe Racks
 Overhead Condenser Supports
 Man-hours for Carbon Steel Welding
 Pre-Engineered Metal Buildings
 Modular Relocatable Structures

CARPENTRY

Sills and Ledgers
 Interior Wood Partitions
 Wood Wall and Partition Framing
 Columns and Posts
 Floor or Flat Roof Joists
 Built Up Girders and Headers
 Glued Laminated Beams
 Gang Nail Trusses and Pitched Roof Framing
 Board Sheathing on Pitched Roofs
 Plywood Sheathing
 Particle Board and Hardboard Underlayment
 Plank Flooring
 Laminated Wood Floors on Edge
 Roof Decking
 Sidings, Wood, Plywood, Hardboard
 Solid Wood Paneling
 Hardboard Wallboards
 Custom Prefinished Paneling
 Wood Trim
 Prefinished Custom Cabinets and Countertops

MOISTUR PROTECTION

Building Paper and Vapor Barrier
 Moisture Barriers and Pargeting
 Building Paper and Vapor Barrier
 Moisture Barriers and Pargeting
 Building Insulation
 Built-Up Roofing
 Roll, Shingle, Shake, Tile and Elastomeric Roofing
 Single Ply Roofing
 Preformed Metal Roofing and Siding
 Sheet Metal Roofing on Pitched Roofs
 Flashing and Sheet Metal
 Roof Hatches and Heat & Smoke Vents
 Skylights
 Caulks and Sealants
 Firestop Compounds

DOORS & WINDOWS

Steel Access Doors
 Steel Door Frames
 Wood Door Frames

HOLLOW METAL DOORS

Wood Doors
 Fiberglass Faced Entrance Doors
 Entrance Doors
 Laminated Plastic Clad Doors
 Builders Hardware
 Prehung Doors
 Wood Folding Doors
 Folding and Bypass Closet Doors
 Aluminum Framed Sliding Glass Doors
 Aluminum Framed Mirrored Closet Doors
 Sliding Wood Framed Doors
 Roll-Up and Sectional Overhead Doors
 Garage Doors
 Wood Window Units
 Sliding Aluminum Windows
 Fixed Glazing
 Aluminum Framed Entrance Doors and Storefronts
 Aluminum and Steel Window Walls and Curtain Walls

FINISHES

Non-Bearing Steel Studs and Suspended Furring for Gypsum
 Wallboard (Drywall)
 Load-Bearing Steel Stud Walls
 Gypsum Wallboard (Drywall)
 Metal Furring, Lath and Plaster Interior and Exterior
 Fireproofing of Structural Steel
 Dryvit® Outsulation® System
 Acoustical and Integrated Ceiling
 Ceramic Tile, Quarry Tile and Terrazzo
 Hardwood Floors
 Seamless Floors and Wainscoting
 Resilient Flooring
 Carpet Floor Covering
 Painting
 Preparation and Protective Coatings for Metal Surfaces
 Vacuum Blasting Surface Preparation for Metal Surfaces
 Wall Coverings
 Wall Systems - RAPIDS

SPECIALITIES

Gypsum Partitions and Shaft Walls
 Laminated Partitions
 Toilet Partitions and Toilet Room Accessories
 Wire Mesh Partitions
 Vinyl Fabric and Vinyl-Clad Folding Partitions
 Portable Partitions
 Operable Walls
 Access Floor Systems
 Metal Lockers
 Linen/Trash Chutes and Compactors
 Air Curtains
 Hydraulic Dock Levelers, Lifts, Shelters and Bumpers
 Dumbwaiters and Elevators
 Moving Walkways and Escalators

MECHANICAL

Water Chillers
 Cooling Towers for Water Chillers
 Pumps for Water Chillers

Heating and Cooling Units - Roof Mounted and Through The Wall Type
Unit Heaters and Forced Air Furnace/Cooling Units
Boilers, Circulating Booster Pumps and Convectors
Tanks, Tank Heaters and Instantaneous Heaters
Air Handling Units
Ductwork and Accessories
Insulation for HVAC Equipment and Ductwork
Air Conditioning Control Systems
Air Balancing
Water Closets
Lavatories
Urinals
Bathtubs
Integral Bathtub/Shower and Wall Surrounds
Kitchen Sinks and Garbage Disposal Units
Service Sinks
Wash Sinks
Wash Fountains
Emergency Showers and Eye-Wash Fountains
Drinking Water Fountains
Floor Drains
Floor Sinks
Interceptors, Separators and Backwater Valves
Water Heaters
Vent Through Roof and Clean Outs
Plumbing Fixtures - Rapid Estimating System
Roof Drains and Rain Leaders
Copper Piping Systems
Red Brass Piping Systems
Cast Iron Drain, Waste and Vent Piping Systems
A-120 Steel Piping Systems
Victaulic® Pressfit® Carbon Steel Piping
Victaulic® Pressfit® Type 316 Stainless Steel Piping System
Grooved End A-106 Carbon Steel Piping
CPVC Plastic Piping Systems
Polypropylene Drain, Waste and Vent Piping Systems
PVC Drain, Waste and Vent Piping Systems
ABS Drain, Waste and Vent Piping Systems
Flanged Cast Iron Cement Lined Piping Systems
A-106 Carbon Steel Piping Systems
A-53 Carbon Steel Piping Systems - Shop Fab
A-53 Carbon Steel Piping Systems - Field Fab
Carbon Steel Piping Systems, Large Diameter - Field Fabricated
Aluminum Piping Systems
Stainless Steel Piping Systems
Flanged Plastic Lined Piping Systems
PVDF (Kynar)™ Plastic Piping Systems
Fiberglass Reinforced Piping Systems (RTRP)
High Density Polyethylene (HDPE) Compressed Air Service Piping
Self-Contained Regulating Valves and Back Flow Preventers
Control Valves
Liquid Level and Pressure Gauges
Tank Level Gauging Devices
Measurement Elements
Safety Relief Valves

Flow Instruments, Pneumatic and Electronic, Local Mounted
Liquid Level Instruments, Pneumatic and Electronic, Local Mounted
Pressure Instruments, Pneumatic and Electronic, Local Mounted
Temperature Instruments, Pneumatic and Electronic, Local Mounted
Distributed Control Systems (DCS)
Honeywell Instruments
Instrument Control Panels and Instruments
Control Panel Installation
Instrument Piping
Piping Assemblies for Liquid Level Instruments
Stainless Steel Tubing Systems
Expansion Joints and Flexible Pump Connectors
Steam Tracing
Steam Traps and Strainers
Bolts and Gaskets
Sample Coolers
Hot Taps
X-Ray of Buttwelds
Cement Mortar Lining and Coating of Carbon Steel Pipe
Pipe Hangers and Supports
Fire Hose Racks, Fire Extinguishers and Accessories
Insulation on Hot and Cold Service Piping
Insulation on Cold Process Piping and Process Equipment
Insulation on Hot Process Piping and Process Equipment
FOAMGLAS Insulation
KOOLPHEN K Phenolic Foam Insulation
Steam Trap Assemblies
Air Conditioning, Heating And Ventilating Systems - Installed Costs
Plumbing Fixtures - Total Installed Costs
Fire Protection Systems - Total Installed Costs
ELECTRICAL
Galvanized Rigid Steel Conduit Systems
PVC Coated Galvanized Rigid Steel Conduit Systems
Rigid Aluminum Conduit Systems
Electrical Metallic Tubing (EMT) Thinwall Conduit Systems
PVC Plastic Rigid Conduit Systems
Underground Plastic Utility Duct Systems
Sealtite Conduit Systems
Cable Tray and Accessories
Wireway Gutter and Accessories
Steel Underfloor Duct Systems
Service Entrance Caps, Ells, Capped Ells, and Ground Rods
Hazardous Area Elbows, Pulling Ells, Unions, Flexible Couplings
Junction Boxes, Sealing Fittings, Drains and Breathers
Conduit Hangers and Supports
Wire and Cable
Armored/Metal Clad Cable
Armored Flexible Cable (BX) and Terminations
Electronic Instrument Wire and Cable
Armored Electronic Instrument Cable
Thermocouple Extension Wire and Cable
Armored Thermocouple Cable
Non-Metallic Sheathed Cable (ROMEX) and Terminations

ENCLOSURES AND JUNCTION BOXES
Feeder Bus Duct and Accessories
Plug-In Bus Duct and Accessories
Trolley Duct and Accessories
Metal Clad Switchgear
Service Entrance and Distribution Switchboards
Transformers
Circuit Breaker Distribution Panelboards
Panelboards/Loadcenters/Sub-Panels in Hazardous Areas
Panelboards/Loadcenters/Sub-Panels - General Purpose
Safety Switches
Circuit Breakers
Motor Starters
Meter Panels
Motor Control Centers
Control Stations (Pushbuttons and Pilot Lights)
Terminal Blocks
Ground Fault Protection System
Convenience Outlets and Toggle Switches
Lighting Fixtures General Purpose
Lighting Fixtures Vaportight and Explosion Proof
Outdoor Floodlights and Floodlight Poles
Audible Signal Devices Explosion Proof
Grounding Systems
Power Line Poles and Power Line Transmission Wire
Electric Heat Tracing Systems
Circuit Feeders - RAPIDS
Branch Circuits with Convenience Outlets - RAPIDS
Branch Circuits with Toggle Switches - RAPIDS
Branch Circuits for Lighting - RAPIDS
480 Volt Motor Feeders - RAPIDS
Electrical Systems for HVAC - Total Installed Costs
Electrical Wiring and Fixtures - Total Installed Costs

PROCESS EQUIPMENT

Radiant Heat Cable - Total Installed Costs
Troughed Belt Conveyors
Bucket Elevators
Screw Conveyors
Tube-Flo Conveyors
Multi-Flo Conveyors
Twin Rotor Impactors
Ring-Type Granulators
Gravity Impact Crushers
Hammermills
Reversible Impactors
Single Roll Crushers
Single Roll Frozen Coal Crackers
Bin Activators
Vibrating Feeders
Pressure Sifters
Rotary Screens
Turbo-Screen Classifiers
Vibrating Packers
Industrial Fans
Positive Displacement Air Blowers
Gas Scrubbers
Cyclone Collectors
Centrifugal Scrubbers

FILTER CARTRIDGE DUST COLLECTORS
Bag House Dust Collectors
Feeder Valves
Portable Mixers
Gearmotor Mixers
High Speed Dispersion Mixers
Chemical Mixer/Feeder Packaged Units
Liquid Polymer Blender
Pipeline Homogenizer-Mixers
Batch Homogenizer-Mixers
Rotary Flask Agitators
Liquid Clarifiers
Vibrating Separators
Lab Separators
Rubber Lined Filters
Vane-Type Separators
White Water Filters
Drum Dryers
Rotary Vacuum Dryers
Conical Rotating Vacuum Dryers
Cooling Drum Flakers
Packaged Boilers
Deaerating Feedwater Heaters
Steel Stacks for Boilers
Tank Heating Coils
Fired Tank Immersion Heaters
Fuel Oil Heaters
Hairpin Type Heat Exchangers
Heat Exchangers for Heating Water
TEMA R Shell and Tube Heat Exchangers
Vertical Tube Surface Condensers and Receivers
Acid Coolers
Process Plant Cooling Towers
Inert Gas Generators
Reciprocating Air Compressors
Rotary Screw Air Compressors
Breathable Air Compressors
Centrifugal Air Compressors
Integral Gas Engine Compressors
Air Receivers/Gas Pulsation Dampeners
Refrigerated Air Dryers
Chiller Air Dryers
Air Dryers, Desiccant Type, 2 To 50 SCFM
Air Dryers, Desiccant Type, 50 to 1600 SCFM
Air Dryers, Desiccant Type, 1900 To 9600 SCFM
Air Dryer Prefilters, Afterfilters and Automatic Drain Valves
Centrifugal Pumps, Single Stage, Vertical Split Case
Centrifugal Pumps, Single Stage, Horizontal Split Case
Centrifugal Pumps, Single Stage, ANSI
Centrifugal Pumps, Single Stage, API 610
Centrifugal Pumps, Two Stage, Horizontal Split Case
Centrifugal Pumps, Multi-Stage, Radially Split Case
Centrifugal Pumps, Single Stage, In-Line
Centrifugal Pumps, Single Stage, In-Line, API 610
Turbine Pumps, Vertical, Single and Multi-Stage
Sump Pumps
Plunger Pumps
Sewage Pumps, Horizontal

sewage pumps, vertical	Centrifugal Sitter
Chemical Metering Pumps	API Floating Roof Storage Tanks
Surge Suppressors	Concrete Silos
High Vacuum Pumps	Hot Process Water Softener Systems
Two-Stage Mechanical Vacuum Pumps	Gravity Filtration Units
Multi-Stage Mechanical Booster Vacuum Pumps	High Speed Mechanical Surface Aerators
Vacuum Booster Pumps	Floating Spray Coolers
Hot Vacuum Pumps	Comminutors
Rotary Vane Vacuum Pumps	Wastewater Stationary Screening
Vacuum Pump Accessories	Wastewater Clarifier/Interceptors
Ejectors	Clarifier-Reactivators
Instructions for Using Pressure Vessel Fabrication Data	Wastewater Chlorinators
ASME Section VIII Pressure Vessel Shells & SE Heads	High Capacity Chlorinators and Sulfonators
Wear Plates & Saddles for Horizontal Vessels	API Type Oil/Water Separators
Angle Legs for Vertical Vessels	Oil/Water Coalesce
Skirts for Vertical Vessels	Coalescing Filters
Coupling Nozzles	Oil Skimmers
Buttweld Flange Type Nozzles	Sludge Level Control Systems
Long Weld Neck Type Nozzles	Sludge Density Controllers
Nozzle Extensions and Internal Piping	Nitric Oxide Analyzers
Drip Legs	Hydrocarbon Analyzers
Baffles, Draw-Off Boxes, Vortex Breakers and Ladder Rungs	Automatic Liquid Samplers
Tray Rings for Removable Trays	Infrared Analyzers
Shop Installation of Trays in Columns	Density Measuring Systems
Shop Installation of Demisting Pads	Electric Hoists
Insulation Supports and Vacuum Stiffeners	Overhead Traveling Bridge Cranes
Ladder, Platform and Pipe Support Clips, Lifting Lugs and Davits	Motor Truck Scales
Stress Relief	Railroad Track Scales
Shop Costs, Engineering and Administrative Costs	Tank and Hopper Scales
Removable Type Trays	Self-Contained Low Profile Platform Scales
Demisting Pads	Bench and Portable Scales
ASME Spheres	Generator Sets
Glass Lined Reactors	Small Motors
API Cone Roof Storage Tanks	Medium Size Motors
Installation of Pressure Vessels	Large AC Motors
Propane Storage Tanks, ASME 250 PSI	Gearing Products
Gravimetric Feeders	Horizontal Gearmotors
Volumetric Feeders	Concentric Shaft Speed Reducers
Wing-Type and Conveyor-Type Feeders	Flexible Couplings
Pre-Wetting Dry Chemical Feeders	Steam Turbines
Vibrating Screens	Shaft Alignment
Full-Flow Rectangular Separator	Freight Rates for Process Equipment

On Line Access of the PPCES On Line PDF Version:

With each seat of the Richardson Database Product you have the Option of Subscribing to the Richardson Process Plant Cost Estimating Standards (On Line) PDF Version (NO DYNAMIC DATA), for additional \$1,595.00 Each.

Union Wages

The CostDataOnLine.com Union Labor presents data detailing "Hourly Wage Rates and Fringe Benefits" for journey level construction craft workers. Union Labor Wage Rates are currently updated quarterly and ultimately will be updated monthly.

Union Wage Rates and Fringe Benefits are based on the best data available at time of each release. Where possible, the Local Union is used as the source in that city, as well as the expiration dates for the rate. Fringe Benefits include all monies paid by the contractor specifically required by contract. These include, but are not limited to, Health and Welfare, Pensions, Vacations, Apprentice Training, and in certain instances Promotional Funds and Unallocated Funds. These monies are listed in the Fringes column.

If a "P" is posted behind the expiration date (12/31/xxP) it indicates that the Union Wages were analyzed and a "projected" Wage and Fringes are posted. One of the major reasons for this maybe a new union contract could be in negotiations and not completed the date of posting.

Worker's compensation premiums are not included in this data. These rates are experience-based and can vary dramatically; so we will not publish this data.

USA Cities that we report Union:

Anchorage, AK	Worcester, MA
Fairbanks, AK	Baltimore, MD
Birmingham, AL	Portland, ME
Huntsville, AL	Detroit, MI
Mobile, AL	Flint, MI
Montgomery, AL	Grand Rapids, MI
Little Rock, AR	Lansing, MI
Phoenix, AZ	Duluth, MN
Fremont, CA	Minneapolis, MN
Fresno, CA	St. Paul, MN
Long Beach, CA	Kansas City, MO
Los Angeles, CA	St. Louis, MO
Oakland, CA	Jackson, MS
Riverside, CA	Billings, MT
Sacramento, CA	Charlotte, NC
San Diego, CA	Raleigh, NC
San Francisco, CA	Fargo, ND
Santa Ana, CA	Omaha, NE
Denver, CO	Manchester, NH
Hartford, CT	Newark, NJ
New Haven, CT	Trenton, NJ
Stamford, CT	Albuquerque, NM
Washington, DC	Santa Fe, NM
Wilmington, DE	Las Vegas, NV
Jacksonville, FL	Albany, NY
Miami, FL	Buffalo, NY
St. Petersburg, FL	New York, NY
Tampa, FL	Rochester, NY
Atlanta, GA	Schenectady, NY
Savannah, GA	Syracuse, NY
Honolulu, HI	Akron, OH
Des Moines, IA	Cincinnati, OH
Boise, ID	Cleveland, OH
Chicago, IL	Columbus, OH
Peoria, IL	Dayton, OH
Rock Island, IL	Toledo, OH
Rockford, IL	Youngstown, OH
Evansville, IN	Oklahoma City, OK
Hammond, IN	Tulsa, OK
Indianapolis, IN	Portland, OR
South Bend, IN	Erie, PA
Topeka, KS	Philadelphia, PA
Wichita, KS	Pittsburgh, PA
Louisville, KY	Reading, PA
New Orleans, LA	
Shreveport, LA	
Boston, MA	
New Bedford, MA	
Springfield, MA	

Scranton, PA
York, PA
Cayey, PR
Providence, RI
Columbia, SC
Spartanburg, SC
Sioux Falls, SD
Chattanooga, TN
Knoxville, TN
Memphis, TN
Nashville, TN
Corpus Christi, TX
Dallas, TX
El Paso, TX
Fort Worth, TX

Houston, TX
Lubbock, TX
San Antonio, TX
Salt Lake City, UT
Norfolk, VA
Richmond, VA
Burlington, VT
Seattle, WA
Spokane, WA
Green Bay, WI
Madison, WI
Milwaukee, WI
Charleston, WV
Cheyenne, WY

FOR DATABASE SUBSCRIPTIONS

PLEASE CONTACT:

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