

To Be Microfilmed



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FAX

Permit # 0415798
8100 Bruceville Rd

TO: JOHN BREIL (ELECTRICAL INSPECTOR)
FROM: RON HISER (SUPERINTENDENT)
PHONE:
FAX: (916) 808-8370
DATE: 8-31-05
PAGES: 7 (INCLUDING COVER)
RE: GROUND FAULT SYSTEM REPORT
CC: MIKE BOGNA

- URGENT
- FOR REVIEW
- FYI
- PLEASE REPLY

NOTES: JOHN...PER OUR DISCUSSION HERE IS THE GROUND FAULT SYSTEM TEST REPORT FOR THE SO SAC ONCOLOGY BUILDING LOCATED AT 8100 BRUCEVILLE ROAD AND PERMIT #0415798... IF YOU NEED ADDITIONAL INFORMATION FILL FREE TO CONTACT ME AT (559) 217-7418...

THANKS AGAIN FOR COOPERATION IN GETTING THE ONCOLOGY BUILDING COMPLETED...RON

THIS TRANSMISSION IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS TRANSMISSION IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISTRIBUTION, COPYING, OR TAKING ANY ACTION WITH RESPECT TO THE CONTENTS OF THIS TRANSMISSION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE IMMEDIATELY NOTIFY THE SENDER BY TELEPHONE, AND RETURN THE ORIGINAL TRANSMISSION IN ERROR TO US AT THE ADDRESS LISTED ABOVE, VIA THE U.S. POSTAL SERVICE.

G.L. BRUNO ASSOCIATES, INC. Fresno, CA 93721

Vendor: County of Sacramento

Date Invoice Description

4-14-05 4/14/05 SEWER IMPACT FEES

12305

Amount Retainage

29625.00 .00 29625.00

Net

29625.00

[Extremely faint and noisy data area]

12305

29625.00

29625.00

County of Sacramento
Accounting & Fiscal Services

*** Customer Receipt ***

Receipt #: 120080000000007966

Transaction 4/15/2005 3:11:33PM

Date / Time:

Case #: SMD2005-00319

Fee Type Fee Amount

CSD 1 Fees 18,900.00

SRCSD Sewer Fees 10,725.00

Total : Check 29,625.00

Bank #: 90-4149

Check # / Acct #: 12305

Received: In Person

Confirm No:

Amount Tendered: 29,625.00

Certification of Compliance
School District Development

Part I - To be completed by the APPLICANT

Owner's Name/Address Investment Strategies Affiliates, Danville, CA
Project Address 8100 Bruceville Rd, Sacramento, CA
Parcel Number 117-0183-001, 002, 003 Lot No. _____
Subdivision Name Methodist Hospital PUD No. of Units 1
Applicant's Signature [Signature] Title Vice President Danly
Phone No. (559) 454-7744 Date 4/12/05

Notice to Applicant: Pursuant to Government Code Section 66020(d), this will serve to notify you that the 90-day approval period in which you may protest the fees or other payment identified above will begin to run on the date in which the building or installation permit for this project is issued or on which they are paid to the district(s) or to another public entity authorized to collect them on behalf of the district(s), whichever is earlier.

Part II - To be completed by the BUILDING DEPARTMENT

Plan Identification Number # 0415798
Building Type (check one) Residential Apartment/Condominium Commercial/Industrial
Square Feet of Chargeable Building Area 10,722 #
Signature/Title [Signature] Project Mgr. Date 4-11-05

Part III - To be completed by the SCHOOL DISTRICT

School District ECUSD Certificate No. 47522
 Exempt Comments _____
Residential/Apartment/etc. _____ Square ft. x \$ _____ = \$ _____
Commercial/Industrial 10,722 Square ft. x \$ 0.36 = \$ 3,859.92
Total fees collected..... = \$ 3,859.92

This certification covers only the amount of square footage indicated above. Any additions or corrections to the square footage for this project will require an amendment to the Certificate of Compliance.

As the authorized school official, I hereby certify that the requirements of Government Code Section 65995 and any other authorized requirements have been complied with by the above signed applicant.

Signature [Signature] Date 4/18/05

PAID
APR 18 2005
Facilities Planning
El Cerrito Unified School District
White & Canary - School District • Pink - Building Department • Goldenrod - Applicant



Emerson Process Management
Electrical Reliability Services, Inc.
1808 Tribute Road, Suite E
Sacramento, CA 95815
USA

T (916) 920 5014
F (916) 920 9020
www.ers.assetweb.com

Ground Fault System Test Report
at
South Sacramento Oncology
Sacramento, CA

for

Howe Electric
4682 East Olive Avenue
Fresno, CA 93702

Attention: Mr. Jason Williams
Order No: 212628

Reference No. 3027268

Submitted By: Hector Suarez
Field Engineer

August 24, 2005

Reviewed By:



Richard J. Alessandri
Operations Supervisor

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1 PURPOSE

Performance testing of ground fault protective equipment is conducted to verify proper installation and operation. The National Electrical Code™ Section 230-95(c) requires an on site test of all ground fault systems upon initial installation. In healthcare facilities, the National Electrical Code™ section 517-17 requires at least one additional level of ground fault protection to be installed. This Code section also requires the additional testing of each level to ensure the ground fault system is 100% selective.

2 SUMMARY

- 2.1 This project was initiated by Mr. Jason Williams with Howe Electric. All testing was performed by Electrical Reliability Services Field Engineer Dan Wardrip, between Thursday, July 28, 2005 and Friday, August 12, 2005.
- 2.2 Please refer to Section 5 "Results and Recommendations" for complete details of the testing.

3 EQUIPMENT TESTED AND INSPECTED

- 3.1 MSB Main Breaker 1200amps.

4 PROCEDURES

- 4.1 Ground Fault Systems
 - 4.1.1 Visual and Mechanical Inspection
 1. Recorded equipment nameplate data.
 2. Inspected for physical damage. Visually inspected the components for errors in polarity or conductor routing.

3. Inspected neutral main bonding connection to assure:
 - a. Proper size
 - b. Ground connection was made ahead of neutral disconnect link
4. Verified ground electrode conductor(s) for proper size and connection.
5. Compared pickup and time delay settings with customer's data.
6. Verified proper ground fault relay circuit identification.
7. Verified that neutral sensors are connected with correct polarity on both primary and secondary.

4.1.2 Electrical Tests

1. Measured the system neutral-to-ground insulation resistance with the neutral disconnect link temporarily removed. Replaced the neutral disconnect link after testing.
2. Measured pickup current by primary injection at sensor.
3. Verified the relay did not operate at ninety percent of the pickup setting.
4. Measured time delay at two points above pickup current level by injecting current into the sensor. Total trip time was electrically monitored.
5. Tested system operation at fifty-five percent rated voltage for systems with external control power (Reference UL 1053).
6. Verified correct polarities on summation type systems utilizing separate phase and neutral current sensors by applying current to each phase-neutral current transformer pair.

5 RESULTS AND RECOMMENDATIONS

- 5.1 The ground fault relay system was found correctly installed and operating properly.
- 5.2 Pickup current and time delay settings were provided by Steve Jacobcen with Howe Electric.
- 5.3 The equipment listed in Section 3 was found to be satisfactory, as indicated by the attached field data sheets.

Results from the forms:



GROUND FAULT SYSTEM TEST REPORT

Electrical Reliability Services						
CLIENT: Howe Electric			ENGINEER: HS DW		JOB NO.: 3027268	
LOCATION: 8100 Bruceville			WITNESS: Steve		DATE: 08/12/2005	
SWITCHGEAR DESIGNATION: MSB Main Breaker			ASSET NO.: E72-01084/E70-01386		CAL. DATE: 6-2-05/1-2-05	
FIELD DATA						
SWITCHBOARD MANUFACTURER Square D			S.O. NUMBER 08006115890001		UL NUMBER E-868222	
MAIN OVERCURRENT DEVICE <input checked="" type="checkbox"/> Circuit Breaker <input type="checkbox"/> Fused Switch			MFGR. Square D			
TYPE RGF	MODEL/CAT. NUMBER RGF36120444A	CURRENT RATING N/A	SYSTEM VOLTAGE 480/277		VOLTAGE RATING 65KA	
GROUND FAULT SYSTEM <input type="checkbox"/> Neutral Ground Strap <input type="checkbox"/> Zero Sequence Residual System <input checked="" type="checkbox"/> Other					MFGR. Square D	
MODEL Micrologio 8.0A		CAT. NUMBER RGF36120444A		PICKUP RANGE A-J		TIME RANGE .1-.4 in/out
SENSOR / CT Inaccessible						
AS FOUND A	PICKUP N/A	TIME .1 in	AS LEFT SETTING A	PICKUP N/A	TIME 0.1	SETTINGS BY As Found, per Client.
INSPECTION						
SERVICE ENTRANCE CONDUCTORS PHASE N/A		PER	MAIN BONDING JUMPER 1/4" X 3"		GROUND ELECTRODE CONDUCTOR 3/0 <input checked="" type="checkbox"/> AWG <input type="checkbox"/> MCM	
NEUTRAL - GROUND LOCATION <input checked="" type="checkbox"/> Correct <input type="checkbox"/> Incorrect <input type="checkbox"/> Corrected by Contractor					CONTROL POWER TRANSFORMER VA N/A	
MONITOR TEST PANEL OPERATION <input checked="" type="checkbox"/> Correct <input type="checkbox"/> Incorrect <input type="checkbox"/> Corrected				OTHER		
ELECTRICAL TESTS						
BREAKER SWITCH REACTION TIME <input checked="" type="checkbox"/> Seconds <input type="checkbox"/> Cycles			REDUCED VOLTAGE TEST (55% RATED VOLTAGE) <input checked="" type="checkbox"/> Trip (Correct) <input type="checkbox"/> No Trip (Incorrect)			
PICKUP CURRENT 400		PICKUP CURRENT (PICKUP MINUS 25%) <input type="checkbox"/> Trip (Incorrect) <input checked="" type="checkbox"/> No Trip (Correct)				
SYSTEM NEUTRAL INSULATION RESISTANCE TO GROUND MEGOHMS >999		OTHER				
TIME - CURRENT CALIBRATION TESTS	PRIMARY CURRENT AMPERE-TURNS	PERCENT PICKUP	TOTAL TIME	REACTION TIME	RELAY TIME	MFGR. TOLERANCE
	500	150	0.12	N/A	N/A	N/A
	800	200	0.12	N/A	N/A	N/A
REMARKS: Test results are acceptable. System is acceptable for service energization.						