



CONTRACT

between the representative of TÜV Rheinland Korea Ltd. (testing body) and the representative of ChungSong Systems Co.,Ltd (equipment manufacturer) regarding the testing and certification of the Dry Etching System of ChungSong Systems.

I/ Client data and address

Client data	Address
Primary contact: Mr. Kyung-Bin Bae	ChungSong Systems Co., Ltd
Contact #2:	Kyonggi-do, Pyongtaek-shi, Jije-dong, #33
Contact #3:	Republic of Korea
Tel.: (0333) 659-2321	
Fax: (0333) 659-2321	
Handy phone: 011-329-7316	
E-mail: kbbae@cssystems.co.kr	

II/ System to be tested

Dry Etching System "Buffalo 8000XP"

III/ Guidelines selected

SEMI S2-93A *	Safety guidelines for semiconductor manufacturing equipment - Electro-Mech.
SEMI S8-95 *	Safety guidelines for ergonomics/human factors
SEMI S2-93A **	Safety guidelines for semiconductor manufacturing equipment - Environmental

* TÜV Rheinland Korea

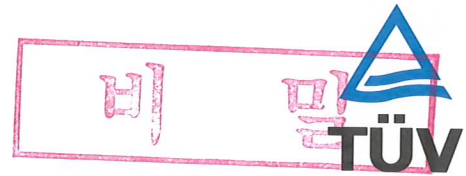
** Clayton Environmental

IV/ TÜV Rheinland Korea service charge

Our service charge includes the following items

- Test preparation including one technical meeting
- Evaluation of documents
- Assessment SEMI S2 and S8 (Environmental assessment not included)
- Witness test according to SEMI S9-95
- Deviation summary
- SEMI S2 report and SEMI S8 report (checklist)
- Expenses for travel and lodging of TÜV Rheinland Korea engineer(s) within the Republic of Korea

Total amount: **20,000,000 ₩**



VII/ Payment schedule for charges of TÜV Rheinland Korea

- 30% pre-payment of the full amount before opening the project
- 40% of the full amount after SEMI S2 and S8 assessment
- 30% of the full amount before issuing SEMI S2 and S8 report

All the invoices issued by TÜV Rheinland Korea shall be paid within 30 days after receiving.

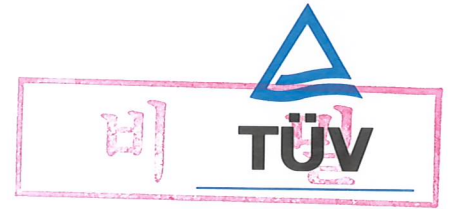
VIII/ Payment schedule for charges of Clayton Environmental

- 10,000 US \$ pre-payment before departure from U.S.A.
- The rest of the amount (except charges at actual costs) falls due after issuing the final deviation report (by Clayton)

All invoices issued by TÜV Rheinland Korea shall be paid within 30 days after receiving.

IX/ General terms

- General terms and conditions issued by TÜV Rheinland Korea also apply, and will be sent after receiving the filled in attached application sheet.
- Clayton Environmental will be sub-contracted by TÜV Rheinland Korea.
- All invoices related to this project will be issued by TÜV Rheinland Korea.
- A TÜV Rheinland SEMI mark certificate can be issued after a completely "passed" SEMI S2-93A test report.
- Approvals and individual evaluations of components, if necessary, will be charged separately (as mentioned above).
- This contract is to based on the actual testing of one model, one unit.
- These assessment do not imply or demand that compliance be achieved. It is the intention of this assessment to determine if the model, unit, tested is in compliance with the guidelines and standards, as listed above.
- This contract is based on an estimation only and the guidelines and standards selected may change as the project investigation proceeds. The applicant will be advised in advance if these changes in the investigation will result in any additional costs.
- All information, documents, and photos given to TÜV Rheinland and subcontracted companies will be treated confidential.



VI/ Clayton Environmental service charge

- Rental of testing equipment
- Testing according to applicable clauses in the SEMI S2 guideline
- Expenses for travel, meals and lodging in Korea (will be paid by ChungSong Systems at actual costs)
- Expenses for custom clearance, handling and transport of testing equipment in Korea (will be arranged and paid by ChungSong Systems directly)
- Expenses for travel time (working time while travelling from U.S.A. to Korea and back)

Total amount: **27,500 US \$** This amount covers costs for travelling (flight tickets and working time while traveling) and for assessment including rental of test equipment.

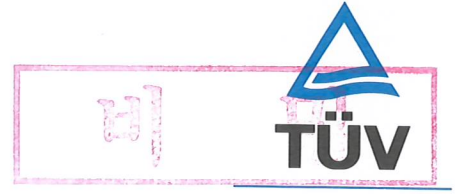
VII/ Charges out of the scope of this project

Additional charges may occur for:

- Testing of non-approved components, i.e. Pumps, Motors, Robots, Lasers
- TÜV Rheinland design support (design and constructional checks, check out of manufacturers which offer approved components other than components approved by TÜV Rheinland Korea)
- Preparation of machinery specific documents (i.e. Risk Analysis Table, Earthquake Report, Constructional Data Form, Noise Report) by TÜV Rheinland Korea
 - ⇒ Price for earthquake analysis and issuing of report: 2,500,000 ₩
 - ⇒ Price for noise test and issuing of report: 2,000,000 ₩
- Service outside of the Republic of Korea requested by end-user and state authorities (i.e. field inspection of the machine at end-user's site).
 - ⇒ Inspection fee at end-user's (SAS) site: approximately 1000 USD/ day and engineer

Remark: Not more than 1 or 2 days for 1 or 2 engineers are expected for final inspection and field inspection at end-user's site.

- Re-tests in case of failures according to SEMI S9-95
- V.A.T.



X/ Others

In order to open the project for testing services, please complete a copy of TÜV Rheinland application sheet for investigation and return it to our office.

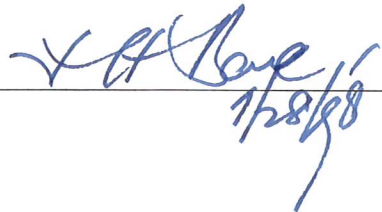
Prior to the testing of your system we will prepare a test plan. We will contact you concerning any additional information needed to complete the test plan.

Please provide at least one model to be tested. Additional information concerning number and special preparation of test samples may be included in the test plan.

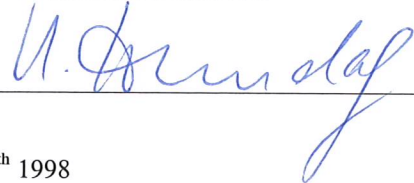
If any special test fixtures, materials, support equipment, or software is required for the operation of the test samples, these must be provided with the test samples, unless prior arrangements have been made.

During the testing the test unit will be required to run continuously without operator action for periods of up to 5 hours (longer in certain cases). If your product can not run for these times, the testing of your product may require more test time or special procedures.
Please notify us as soon as possible that we can revise the schedule, and test plan accordingly.

ChungSong Systems Co., Ltd


1/28/98

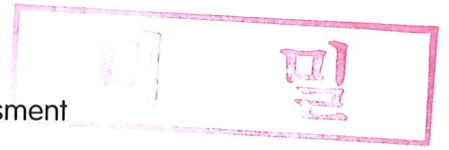
TÜV Rheinland Korea Ltd



Seoul, July 28th 1998

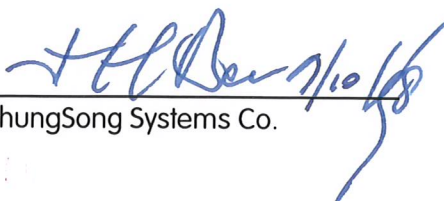
Memorandum for SEMI Assessment between ChunSong Systems Co., and TUV Rheinland Korea.


This memorandum covers detailed contract terms and conditions on SEMI assessment between above two companies.



1. TUV Korea will support checking out of components which were approved by TUV Rheinland Korea free of charge.
2. All payments regarding Clayton engineers' accommodation in Korea, handling fee in Korea, customs clearance in Korea and transportation of measurement equipment in Korea will be billed directly to ChungSong Systems.
3. Regarding preparation of machinery specific documents (I.e. Risk Analysis Table, Earthquake Report, Constructional Data Form, Noise Report) by TUV Rheinland Korea, TUV Rheinland Korea wiill support and give ChungSong Systems how to prepare.
- For earthquake report and noise report are billed to ChungSong Systems as agreed cost.
4. The cost for communication and contact with Samsung Austin Semiconductor to figure out what SAS needed and teaching it to ChungSong Systems are already included in the agreed price.
5. Regarding design support, TUV Rheinland Korea will check Buffalo 8000XP's design and construction for safety during assessment free of charge.
6. Any items not decribed in above, we agree to follow to our previous commucations via e-mail and fax.

Agreed as above provided for :


ChungSong Systems Co.


TUV Rheinland Korea