



RE: CNAL Proficiency Testing Programs (2006)
(Chemical Analysis, Mechanical & Physical Testing)

Dear Sir or Madam:

I take great pleasure in informing you that China NIL Research Center for Proficiency Testing will provide some new international proficiency testing programs in 2006, which are listed in the following Table 1 (chemical analysis) and Table 2 (mechanical & physical testing). All of them are registered as the proficiency testing programs by China National Accreditation Board for Laboratories (CNAL).

I hope that the information contains in this letter is useful for you and kindly ask you to distribute it to any testing laboratory involved in your country.

Table 1 Chemical Analysis of metals & raw material

Serial No.	Title	Test items	Schedule	Price (\$)
NIL PT-0089	Chemical analysis of the components in neodymium iron boron materials	Nd, B	Mar. to Oct., 2006	300
NIL PT-0099*	Chemical analysis of the components in ball bearing steel (<i>Part I</i>)	C, Si, Mn, P, S	Mar. to Oct., 2006	300
NIL PT-0100*	Chemical analysis of the components in ball bearing steel (<i>Part II</i>)	Cr, Ni, Cu	Mar. to Oct., 2006	300
NIL PT-0101	Chemical analysis of the main components in silicon steel	C, Si, Mn, P, TAI	Mar. to Oct., 2006	300
NIL PT-0102	Determination of carbon and sulfur in carbon steel	C, S	Mar. to Oct., 2006	250
NIL PT-0103	Chemical analysis of the main components in low-carbon ferrochromium	C, Si, Cr, Mn	Mar. to Oct., 2006	300
NIL PT-0104	Chemical analysis of the components in silicon calcium alloy	Si, Ca, Mn, P	Mar. to Oct., 2006	300
NIL PT-0105	Chemical analysis of the components in iron ore	TFe, SiO ₂ , Al ₂ O ₃ , S	Mar. to Oct., 2006	300
NIL PT-0106	Chemical analysis of the components in fluorspar	CaF ₂ , SiO ₂ , TCa	Mar. to Oct., 2006	300
NIL PT-0107	Chemical analysis of the components in silicon bronze alloy	Si, Zn, Mn, Fe	Mar. to Oct., 2006	300
NIL PT-0108	Chemical analysis of components in bauxite	Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , CaO, MgO	Mar. to Oct., 2006	300
NIL PT-0109	Chemical analysis of components in copper ores	Cu, S, Ag, As	Mar. to Oct., 2006	300

* The same pair of samples will be provided for NIL 0099 and NIL 0100. For the laboratory that will participate in both NIL 0099 and NIL 0100, only one pair of samples will be provided and the fees will be \$500. Sample discs or chips will be available for different analysis methods.

Table 2 Mechanical & physical testing of metals

Serial No.	Title	Test items	Schedule	Price (\$)
NIL PT-0114	Determination of chromium, nickel in austenitic stainless steel by X-ray EDS analysis with SEM	Cr, Ni	Mar. to Oct., 2006	400
NIL PT-0115	Metallic materials-Determination of the expansion coefficient.	Expansion coefficient	Mar. to Oct., 2006	300
NIL PT-0116	Leeb hardness test for metallic materials	HLD	Mar. to Oct., 2006	420
NIL PT-0117	Elevated temperature tensile test for metallic materials	Tensile strength σ_b	Mar. -06~Mar. -07	500
NIL PT-0118	Room temperature tensile test for metallic materials	Tensile strength (R_m), Percentage elongation after fracture (A)	Mar. -06~Mar. -07	500
NIL PT-0119	Elevated temperature low-cycle fatigue test for metallic materials	Fatigue life	Mar. -06~Mar. -07	800
NIL PT-0121	Ultrasonic test of steel structure's welding line	Dimension & location of defects	Mar. -06~Mar. -07	300

In order to facilitate preparation of adequate number of samples, we need to know the number of laboratories participating in the programs above. Any laboratory to participate in these programs is requested to return its details to CNAL using the attached form ***no later than 20th March 2006.***

SOME USEFUL INFORMATION OF THE PROGRAMS:

*** Test samples**

After we receive the "PARTICIPATION REQUEST FORM" from the participants, Test samples will be distributed along with "INSTRUCTIONS TO PARTICIPANTS", "SAMPLES RECEIPT FORM" and "RESULT SHEET" to the laboratories participating in the program in April 2006. In the proficiency testing programs the samples are prepared and tested for homogeneity by the Standard Material Research Center of CISRI (Central Iron & Steel Research Institute).

*** Testing method**

The samples will be tested by the participant's preferred methods, which are generally used for providing formal reports. However it is preferable to use international or national consensus standard methods. If a standard method is used, please provide its title name and serial number.

*** Registration fees**

Registration fees must be paid in advance to participate in the program. Please remit us the registration fees for the programs in which you will participate after you submit "PARTICIPATION REQUEST FORM". A formal invoice will be forwarded to participating laboratory together with the samples.

***Schedule**

The proposed schedule for the program is as follows:

Dispatch of the notice and participation request form in *January 2006*;

Return of the participation questionnaire by *20th March 2006*(please use E-mail or Fax);

Sample distribution in *April 2006*;

Reporting tested results to CNAL approximately 2 weeks after sample receipt, please no later than *30th May 2006*;

The statistical summary reports will be published in *October 2006*; For NIL PT-0117, 118, 119, 121, the statistical summary reports will be published in *March 2007*.

Any information with which you may favor us will be much appreciated, and we earnestly await your order.

Yours sincerely



WANG Haizhou

Director

China NIL Research Center for Proficiency Testing

Proficiency Testing Work Group for Metals, CNAL



Proficiency Testing Work Group for Metals
China National Accreditation Board for Laboratories



China NIL Research Center for Proficiency Testing

Registration Form for PT Programs

If your laboratory would like to participate in the CNAL programs, please provide the following details:

The programs to participate in (Please tick "X" in the appropriate box for your selected programs.)

<input type="checkbox"/> NIL PT- 0089	<input type="checkbox"/> NIL PT- 0099	<input type="checkbox"/> NIL PT- 0100	<input type="checkbox"/> NIL PT- 0101
<input type="checkbox"/> NIL PT- 0102	<input type="checkbox"/> NIL PT- 0103	<input type="checkbox"/> NIL PT- 0104	<input type="checkbox"/> NIL PT- 0105
<input type="checkbox"/> NIL PT- 0106	<input type="checkbox"/> NIL PT- 0107	<input type="checkbox"/> NIL PT- 0108	<input type="checkbox"/> NIL PT- 0109
<input type="checkbox"/> NIL PT- 0110	<input type="checkbox"/> NIL PT- 0111	<input type="checkbox"/> NIL PT- 0112	<input type="checkbox"/> NIL PT- 0113
<input type="checkbox"/> NIL PT- 0114	<input type="checkbox"/> NIL PT- 0115	<input type="checkbox"/> NIL PT- 0116	<input type="checkbox"/> NIL PT- 0117
<input type="checkbox"/> NIL PT- 0118	<input type="checkbox"/> NIL PT- 0119	<input type="checkbox"/> NIL PT- 0121	

Name: _____

Organization: _____

Postal Address & Zip Code: _____

Phone: _____; Fax: _____

E-mail: _____

Please return this form as soon as possible by e-mail or fax; no later than 20th March 2006.

Liaison Officer

Dr. HU Jingyu

China NIL Research Center for Proficiency Testing

Proficiency Testing Work Group for Metals, CNAL

Box 14, No 76 Xueyuan South Road, Beijing 100081 P. R. China

Phone: +86 10 62182398; Fax: +86 10 62182584

E-mail: nil@analysis.org.cn