

UPOV

TG/GYPSO(proj.2)

ORIGINAL: English

DATE: 2006-08-11

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

GYPSOPHILA

UPOV Code: GYPSO

Gypsophila L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Israel

*to be considered by the
Technical Working Party for Ornamental Plants and Forest Trees
at its thirty-ninth session, to be held in Fortaleza, Ceará State, Brazil,
from August 28 to September 1, 2006*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Gypsophila</i> L.	Baby's Breath, Gyp, Gypsophila	Gypsophile	Gipskraut, Schleierkraut	Gipsófila

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all vegetatively propagated varieties of *Gypsophila* L. of the family *Caryophyllaceae*.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of rooted cuttings.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

15 plants.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be two independent growing cycles.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.3.2 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants"

3.3.3 Observation of color by eye

Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 10 plants.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants.”

3.6 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being

examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, 1 off-type is allowed.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: height (characteristic 1)
- (b) Flower: type (characteristic 15)
- (c) Flower: color (characteristic ...)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 *Legend*

(*) Asterisked characteristic – see Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

MG, MS, VG, VS: – see Chapter 3.3.1

(a)-{x} See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. MS	Plant: height					
(*)						
QN	(a)	short				3
		medium				5
		tall				7
2. VS	Stem: thickness					
QN	(a)	thin				3
		medium				5
		thick				7
3. MS	Stem: length of longest internode					
(*)						
QN	(a)	short				3
		medium				5
		long				7
4. VG	Stem: anthocyanin coloration					
(*)						
QL	(a)	absent				1
		present				9
5. VG	Stem: intensity of anthocyanin coloration					
QN	(a)	weak				3
		medium				5
		strong				7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	MS	Stem: number of internodes on 60cm of main stem				
QN	(a)	few				3
		medium				5
		many				7
7.	VG	Branch: pubescence				
QL		absent				1
		present				9
8.	VG	Leaf: shape				
QL	(b)	elliptic				1
		ovate				2
9.	MS	Leaf: length				
QN	(b)	short				3
		medium				5
		long				7
10.	MS	Leaf: width				
QN	(b)	narrow				3
		medium				5
		broad				7
11.	VG	Leaf: longitudinal axis				
QL		straight				
		incurved				
12.	VG	Leaf: cross section				
PQ		straight				1
		concave				2

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
13.	VG	Leaf: attitude of apex	NEW			
QL		straight				1
		incurved				2
		rolled downwards				2
14.	VG	Leaf: color of upper side				
QL		green				1
		grey-green				2
15.	VG	Flower: type	NEW			
PQ		single				1
		double				2
16.	MS	Flower: diameter				
QN		small				3
		medium				5
		large				7
17.	VG	<u>Only varieties with double flowers:</u> Flower: number of petals				
QN		few				3
		medium				5
		many				7
18.	MS	Flower: length of pedicel				
QN		short				3
		medium				5
		long				7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
19. VG (*)	Flower: profile of upper part					
QL	flat					1
	convex					2
20. VG (*)	Petal: longitudinal axis					
PQ	concave					3
	straight					5
	convex					7
21. VG (*)	Calyx: shape					
QL	cup-shaped					1
	bowl-shaped					2
	flat					3
22. VG (*)	Calyx: number of lobes					
QN	about five					
	about ten					
23. VG	Calyx: size of lobe					
QN	small					3
	medium					5
	large					7
24. VG (*)	Petal: number of colors NEW					
PQ	one					
	two					
25. VG (*)	Petal: main color					
QL	white					1
	pink					3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
26. (*)	VG	Petal: secondary color	NEW			
	QL	white				
		pink				
27. (*)	VG	Time of beginning of flowering				
	QN	early				3
		medium				5
		late				7
A		Plant: angle of side branch with main stem	NEW			
		small				3
		medium				5
		large				7
B		Plant: curvature of side branch	NEW			
		weak				3
		medium				5
		strong				7
C		Varieties with curved side branch only: length of non-curved basal part	NEW			
		short				3
		medium				5
		long				7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
D	Stem: color	NEW				
	light green					
	yellow green					
	dark green					
	grayish green					
	dark green					
E	Stem: woodiness	NEW				
	absent/herbaceous					
	present/woody					
F	Inflorescence: shape of upper part	NEW				
	flat					
	doomed					
G	Inflorescence: position of flowers	NEW				
	in upper part only					
	along whole length					
H	Inflorescence: anthocyanin coloration of node	NEW				
	absent or very weak					
	weak					
	strong					

ADDITIONAL CHARACTERISTICS

- (i) **Inflorescence: number of flowers of terminal unit-** few, medium, many
- (ii) **Flower: number of pistils-** none, three or four
- (iii) **Flower: presence of anthers-** absent, present
- (iv) **Petal: shape-** triangular, obovate
- (v) **Petal: dentation of apex-** absent, present
- (vi) **Calyx: anthocyanin coloration-** absent or very weak, weak, strong

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

(a) Time of observation: beginning of flowering

(b) The leaf to be observed is the largest of the two leaves at the node from which the lowest flowering side branch arises.

8.2 *Explanations for individual characteristics*

9. Literature

{ GN 30 - Literature }

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:																				
		Application date: (not to be filled in by the applicant)																				
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p> <p style="text-align: center;">ASW 13</p> <p>“In the case of hybrid varieties which are the subject of an application for plant breeders' rights, and where the parent lines are to be submitted as a part of the examination of the hybrid variety, this Technical Questionnaire should be completed for each of the parent lines, in addition to being completed for the hybrid variety.”</p>																						
<p>1. Subject of the Technical Questionnaire</p> <p>1.1 Botanical name <input style="width: 400px;" type="text" value="{ Botanical name }"/></p> <p>1.2 Common name <input style="width: 400px;" type="text" value="{ Common name }"/></p> <p style="text-align: center;">ASW 14</p> <p>(a) In the case of Test Guidelines covering more than one species, additional boxes should be added in the following format:</p> <p style="margin-left: 20px;">“1. Subject of the Technical Questionnaire (please indicate the relevant species):</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-left: 20px;">1.1.1</td> <td>Botanical name</td> <td>[species 1]</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">1.1.2</td> <td>Common name</td> <td>[species 1]</td> <td>[]</td> </tr> <tr> <td style="padding-left: 20px;">1.2.1</td> <td>Botanical name</td> <td>[species 2]</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">1.2.2</td> <td>Common name</td> <td>[species 2]</td> <td>[]”</td> </tr> </table> <p style="margin-left: 20px;">etc.</p> <p>(b) If the Test Guidelines cover a genus or a large number of species, question 1 should be presented as follows:</p> <p style="margin-left: 20px;">“1. Subject of the Technical Questionnaire (please complete):</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-left: 20px;">1.1</td> <td>Botanical name</td> </tr> <tr> <td style="padding-left: 20px;">1.2</td> <td>Common name”</td> </tr> </table> <p>with the boxes left blank for completion by the applicant.</p>			1.1.1	Botanical name	[species 1]		1.1.2	Common name	[species 1]	[]	1.2.1	Botanical name	[species 2]		1.2.2	Common name	[species 2]	[]”	1.1	Botanical name	1.2	Common name”
1.1.1	Botanical name	[species 1]																				
1.1.2	Common name	[species 1]	[]																			
1.2.1	Botanical name	[species 2]																				
1.2.2	Common name	[species 2]	[]”																			
1.1	Botanical name																					
1.2	Common name”																					
<p>2. Applicant</p>																						

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:						
<p>#4. Information on the breeding scheme and propagation of the variety</p> <p>4.1 Breeding scheme</p> <p>ASW 15</p>								
<p>(a) <i>Alternative 1</i></p>								
<p>“Variety resulting from:</p> <p>“4.1.1 Crossing</p> <table data-bbox="443 757 1241 1025"><tr><td>“(a) controlled cross (please state parent varieties)</td><td>[]</td></tr><tr><td>“(b) partially known cross (please state known parent variety(ies))</td><td>[]</td></tr><tr><td>“(c) unknown cross</td><td>[]</td></tr></table> <p>“4.1.2 Mutation [] (please state parent variety)</p> <p>“4.1.3 Discovery and development [] (please state where and when discovered and how developed)</p> <p>“4.1.4 Other []” (please provide details)”</p> <div data-bbox="443 1391 1137 1487" style="border: 1px solid black; height: 43px; width: 435px;"></div>			“(a) controlled cross (please state parent varieties)	[]	“(b) partially known cross (please state known parent variety(ies))	[]	“(c) unknown cross	[]
“(a) controlled cross (please state parent varieties)	[]							
“(b) partially known cross (please state known parent variety(ies))	[]							
“(c) unknown cross	[]							

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:						
<i>(b) Alternative 2</i>								
<p>“Variety resulting from:</p> <p>“4.1.1 Crossing</p> <table><tr><td>“(a) controlled cross (please state parent varieties)</td><td>[]</td></tr><tr><td>“(b) partially known cross (please state known parent variety(ies))</td><td>[]</td></tr><tr><td>“(c) unknown cross</td><td>[]</td></tr></table> <p>“4.1.2 Discovery and development (please state where and when discovered and how developed) []</p> <p>“4.1.3 Other []” (please provide details)”</p> <div data-bbox="443 1066 1177 1167" style="border: 1px solid black; height: 45px; width: 460px; margin: 10px auto;"></div>			“(a) controlled cross (please state parent varieties)	[]	“(b) partially known cross (please state known parent variety(ies))	[]	“(c) unknown cross	[]
“(a) controlled cross (please state parent varieties)	[]							
“(b) partially known cross (please state known parent variety(ies))	[]							
“(c) unknown cross	[]							

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2 Method of propagating the variety

GN 31

The examples below indicate how this section can be formatted and some appropriate terms which can be used:

Example 1

“4.2.1 Seed-propagated varieties

“(a) Self-pollination []

“(b) Cross-pollination
 (i) population []
 (ii) synthetic variety []

“(c) Hybrid []
 {...see GN 32 for example...}

“(d) Other []
 (please provide details)”

“4.2.2 Vegetatively propagated varieties

{...see Example 2...} [... ..]

“4.2.3 Other []”
 (please provide details)”

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p><i>Example 2</i></p> <p>“4.2.1 Vegetative propagation</p> <p> “(a) cuttings []</p> <p> “(b) <i>in vitro</i> propagation []</p> <p> “(c) other (state method) []</p> <p>“4.2.2 Seed []</p> <p>“4.2.3 Other []” (please provide details)”</p> <div data-bbox="422 875 1177 954" style="border: 1px solid black; height: 35px; width: 473px; margin: 10px auto;"></div>		
<p>GN 32</p> <p>“In the case of hybrid varieties the production scheme for the hybrid should be provided on a separate sheet. This should provide details of all the parent lines required for propagating the hybrid e.g.</p> <p> “<i>Single Hybrid</i></p> <p> “(… female parent …) x (… male parent …)</p> <p> “<i>Three-Way Hybrid</i></p> <p> “(… female line …) x (… male line …)</p> <p> “=> single hybrid used as female parent x (… male parent …)</p> <p>“and should identify in particular:</p> <p> “(a) any male sterile lines</p> <p> “(b) maintenance system of male sterile lines.”</p>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).</p>		
Characteristics	Example Varieties	Note
<p>GN 13.3 Technical Questionnaire (TQ) characteristics</p> <p>GN 13.4 Relationship between Asterisked, Grouping and TQ characteristics</p>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>6. Similar varieties and differences from these varieties</p> <p><i>Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.</i></p>			
Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
GN 33 <i>Example</i>	<i>[e.g. Flower color]</i>	<i>[e.g. orange]</i>	<i>[e.g. orange red]</i>
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:										
<p>#7. Additional information which may help in the examination of the variety</p> <p>7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p> <p>GN 34 7.3.1 Main use</p> <table data-bbox="446 1008 1244 1198"><tr><td>(a) garden plant</td><td>[]</td></tr><tr><td>(b) pot plant</td><td>[]</td></tr><tr><td>(c) cut-flower</td><td>[]</td></tr><tr><td>(d) other</td><td>[]</td></tr><tr><td>(please provide details)</td><td></td></tr></table> <p>ASW 16</p> <p>“A representative color photograph of the variety should accompany the Technical Questionnaire.”</p>			(a) garden plant	[]	(b) pot plant	[]	(c) cut-flower	[]	(d) other	[]	(please provide details)	
(a) garden plant	[]											
(b) pot plant	[]											
(c) cut-flower	[]											
(d) other	[]											
(please provide details)												
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>												

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

ASW 17

“9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?”

Yes []

(please provide details as specified by the Authority)

No []”

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

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