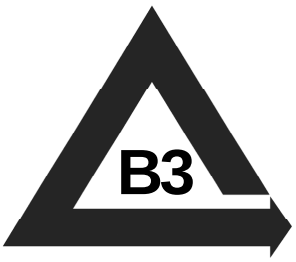

Chapter 3 Appendix 3 Dealing with Variables in SPOLD

Changes were suggested to Bo Weidema, a technical advisor to the SPOLD board.

It was suggested to implement allowances for formulas and variables in numerical fields in addition to the current possibility to enter only number values in the SPOLD format. One of the advantages is that the variables help to self-document some values. For instance, a formula (e.g., Pb Amount: '= water*concentration') is more self-explanatory than a single value (e.g., Pb Amount: 3 mg) without any further explanation.

With the next revision of the SPOLD format, we therefore suggested adding the fields (shown in Table B3-1) in the Dataset Information area of SPOLD 99.

The type Formula is either

- A numerical value in scientific notation or
- Variables (that must be defined in field 210) connected by operational signs (+,-,*,/). In this case, the formula must start with an equal sign (=) to distinguish it from a numerical value. The sign '^' is allowed for exponents.

As a consequence, typing formulas will also be allowed in the fields shown in Table B3-2.

Table B3-1 Suggested fields

ID no.	Field name	Type	Size	Options	Multiple occurrence allowed
210	VariableName	Text	255		Yes
211	VariableShortName	Text	10		Yes
212	VariableValue	Formulae	255		Yes

Table B3-2 Additional suggested fields

Area Name	ID no.	Field name	Type	Size	Options	Multiple occurrence allowed
ReferenceFunction	404	Amount	Number (Real)	Scientific notation		Yes
Subsystems	1304	Mean	Number (Single)	Scientific notation		Yes
Allocations	2404	Fraction	Number (Decimal)	3.1	Maximum 100	No
Exchanges	3707	MeanValue	Number (Single)	Scientific notation		Yes
	3711	EnergyMeanValue	Number (Single)	Scientific notation		Yes

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